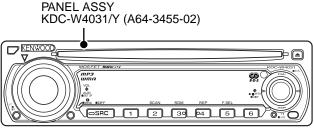
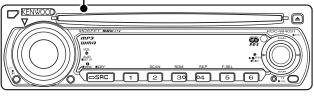
CD RECEIVER KDC-W4031/Y KDC-W409/Y KDC-W431GY KDC-W4531/Y DC-WF431A SERVICE MANUAL

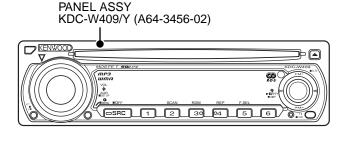
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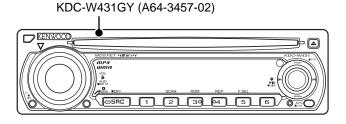
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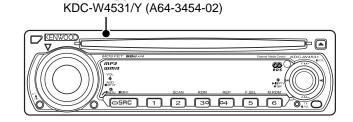


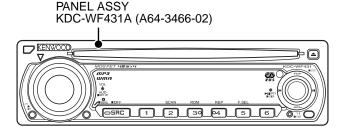


PANEL ASSY





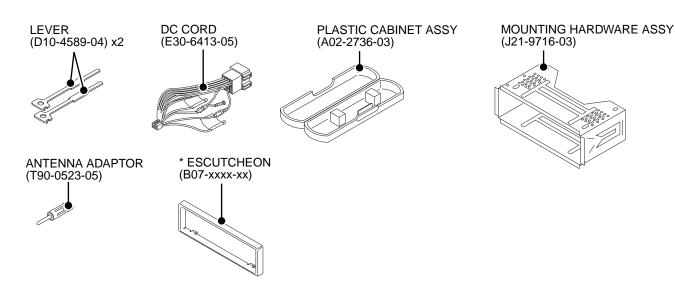




SPARE TDF PANEL

PANEL ASSY

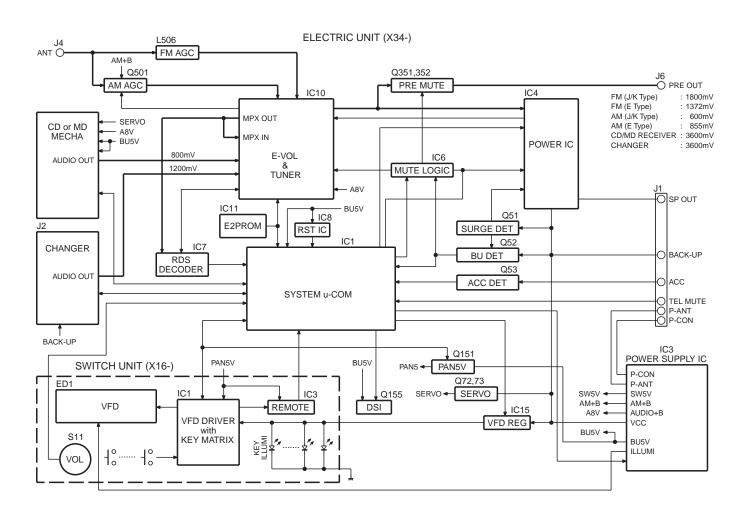
MAIN UNIT NAME	TDF PARTS No.	TDF NAME
KDC-W4031/Y	Y33-2140-60	TDF-W4531
KDC-W409/Y	Y33-2140-65	TDF-W409
KDC-W431GY	Y33-2140-61	TDF-W431GY
KDC-W4531/Y	Y33-2140-60	TDF-W4531
KDC-WF431A	Y33-2140-63	TDF-WF431

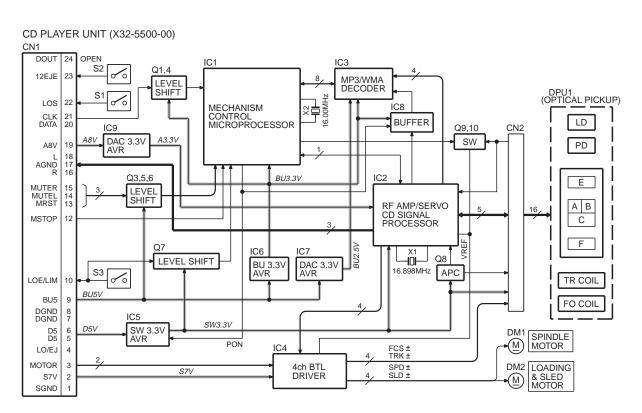


^{*} Depends on the model. Refer to the parts list.



BLOCK DIAGRAM





COMPONENTS DESCRIPTION

● ELECTRIC UNIT (X34-3402-7x)

Ref. No.	Application / Function	Operation / Condition
IC1	SYSTEM μ-COM	System control.
IC3	POWER SUPPLY	DC5Vx2, 7.9Vx1, 8.1Vx1, 10.3V, P.CON, P-ANT output.
IC4	POWER IC	Audio signal amplifier.
IC6	MUTE LOGIC	Mute control.
IC7	RDS DECODER	RDS decode.
IC8	RESET	"L" when detection voltage goes below 3.6V.
IC10	E-VOL & TUNER	E-VOL, Tuner, Stereo decode.
IC11	E2PROM	Saves and writes tuner adjustment data.
IC15	VFD REGULATOR	11.3V output voltage for LED and VFD.
Q51	SERGE DET	"ON" when the base goes "H".
Q52	BU DET	"ON" when the base goes "H".
Q53	ACC DET	"ON" when the base goes "H".
Q71	SERVO+B CONTROL SW	"ON" when the base goes "H".
Q72,73	SERVO+B AVR	Output voltage level : 7.5V.
Q74	IC3 CONTROL SW	"ON" when the base goes "H" (Output voltage : 10.3V).
Q151	PANEL 5V SW	"ON" when the base goes "L".
Q155	DSI ILLUMI SW	"ON" when the base goes "L".
Q252	IC4 STBY SW	"ON" when the base goes "L".
Q330	Q351, 352 MUTE DRIVER	"ON" when the base goes "L".
Q351	Lch PRE MUTE SW	Pre-output is muted when the base goes "H".
Q352	Rch PRE MUTE SW	Pre-output is muted when the base goes "H".
Q501	AM RF AMP	Adjusts for AM-RF gain.

● CD PLAYER UNIT (X32-5500-00)

Ref. No.	Application / Function	Operation / Condition
		Focusing, tracking, sled and spindle servo processing.
104	MECHANISM CONTROL	Automatic adjustment (Focusing, tracking, gain, offset and balance) operations.
IC1	MICROPROCESSOR	Digital signal processing (DSP, PLL, sub-codes, CIRC error correction, audio data
		interpolation) operations, and microcomputer function.
		Generation of RF signal based on the signals from the APC circuit and pickup, and
100	RF AMP/SERVO CD	generation of servo error (Focusing error and tracking error) signals.
IC2	SIGNAL PROCESSOR	Detection of dropout, anti-shock, track crossing and off-track conditions, included
		gain control function during CD-RW.
IC3	MP3/WMA DECODER	
10.4	4-L DTL DDIVED	Focusing coil, tracking coil, spindle motor and sled motor driver, disc loading and
IC4	4ch BTL DRIVER	eject operation.
IC5	SW 3.3V AVR	
IC6	BU 3.3V AVR	3.3V power supply for back-up.
IC7	BU 2.5V AVR	2.5V power supply for back-up.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition
IC8	SELECTOR (SERIAL DATA)	Serial audio data switch.
IC9	DAC 3.3V AVR	3.3V power supply for IC2.
Q1	LEVEL SHIFT	3.3V to 5.0V.
Q3~7	LEVEL SHIFT	3.3V to 5.0V.
Q8	AUTOMATIC POWER CONTROL	LD driver.
Q9,10	SWITCH	Switch for anticipation sub-beam delay.

● SWITCH UNIT (X16-2932-7x)

Ref. No.	Application / Function	Operation / Condition
IC1	VFD DRIVER	
IC3	REMOTE SENSOR	
Q1	GREEN LED SW	"ON" when the base goes "H".
Q2	RED LED SW	"ON" when the base goes "H".
Q21	PAN SW5V	"ON" when the base goes "H".

MICROCOMPUTER'S TERMINAL DESCRIPTION

• SYSTEM μ-COM : IC1 on X34- (ELECTRIC UNIT)

Pin No.	Active (H/L)	Pin Name	I/O	Application	Processing Operation
1		DC ERR	ı	DC offset detection input	
2		LINE MUTE	ı	Phone detection	NAVI MUTE : Over 2.5V, TEL MUTE : Below 1V
3		ROTARY CW	ı	Rotary encoder input	
4		AVSS	-		
5		TUN TYPE1	I	E-VOL setting switch	Refer to "TUN TYPE" on the TRUTH TABLE
6		TUN TYPE2	ı	E-VOL setting switch	Refer to "TUN TYPE" on the TRUTH TABLE
7		AVREF1	-		
8		VFD DATAF	I	Data input from VFD driver	
9		VFD DATAS	0	Data output to VFD driver	
10		VFD CLK	0	Clock output to VFD driver	

Pin No.	Active (H/L)	Pin Name	I/O	Application	Processing Operation
11	L	VFD RST	0	Reset output to VFD driver	Display OFF, Key reset, TDF panel OFF : L Display ON, Key scan : H
12		VFD CE	0	Chip enable output to VFD driver	2.5514) 5.11, 1.67, 5541
13		ROTARY CCW	1	Rotary encoder input	
14	L	TDF DET		TDF panel detection	TDF panel OFF : H, TDF panel ON : L
15		PWIC BEEP	0	Beep output	7
16		LX DATA S	ı	Data from slave unit	
17		LX DATA M	0	Data to slave unit	
18		LX CLK	1/0	LX-BUS clock	
19		RDS AFSL	0	Tuner RDS mute output	Refer to "RDS AFSL" on the TRUTH TABLE
				·	Adjustment=H, PS1-1,2=L, PS1-3=Hi-Z,
20	L	TUN ADJ	1	For adjusting IC10	PS2-1,2=Hi-Z, TUN DATA, CLK=Hi-Z
21		TUN SD	1	Tuner search stop output	H : Station exists, L : Station does not exist
22	Н	LX RST	0	Hard reset to slave unit	H : Reset, L : Normal condition
23	Н	LX CON	0	Start-up request to slave unit	H : Slave unit ON, L : Slave unit OFF
24		LX REQ M	0	Communication request to slave unit	
25		AUD SDA	I/O	Volume + tuner I2C data input and output	
26		AUD SCL	I/O	Volume + tuner I2C clock input and output	
27	Н	PWIC STBY	0	Power IC standby output	Power IC ON : H, Power IC OFF : L
28	Н	VOL MUTE	0	E-VOL mute output	L : Mute OFF, Hi-Z : Mute ON
29	L	PWIC MUTE	0	Power IC mute output	Power OFF : L, Standby : L, Tel mute : L
30		TUN FANC OUT	0	Tuner block (inside the μ-com) check	OK : L, NG : H
31		RESET2	0	Mute for reset	Output L
32		RDS DATA	ı	RDS decoder data input	
33		VSS1	-		
34		RDS QUAL	ı	RDS decoder QUAL input	
35	L	ACC DET	ı	ACC detection	ACC exists : L, ACC does not exist : H
					BU exists : L
36	L	BU DET		Momentary power-down detection	BU does not exist (Momentary power-down) : H
37		NC	-		
38		PS2-2	0	Power supply control output	Refer to "POWER IC CONTROL" on the TRUTH TABLE
39		PS2-1	0	Power supply control output	Refer to "POWER IC CONTROL" on the TRUTH TABLE
40		PS1-1	0	Power supply control output	Refer to "POWER IC CONTROL" on the TRUTH TABLE
41		PS1-2	0	Power supply control output	Refer to "POWER IC CONTROL" on the TRUTH TABLE
42		PS1-3	0	Power supply control output	Refer to "POWER IC CONTROL" on the TRUTH TABLE
43,44		NC	-		
45		CD MUTE	I	CD mute request	L : Mute request
46	L	CD MSTOP	0	CD mecha u-com stop	H : mecha μ-com operates, L : mecha μ-com is stopped
47		CD LOE LIM SW	1	CD detection (chucking switch)	H : Loading is finished, L : Disc does not exist

D: N	Active	5 ' N			
Pin No.	(H/L)	Pin Name	I/O	Application	Processing Operation
		05.105.1			Refer to "CD MECHA CONTROL OPERATION"
48		CD LOEJ	I/O	CD motor control	on the TRUTH TABLE
40		OD MOTOD			Refer to "CD MECHA CONTROL OPERATION"
49		CD MOTOR	0	CD motor control	on the TRUTH TABLE
50		NC	-		
51	L	CD MRST	0	CD mecha μ-com reset	H : Normal condition, L : Reset
52		CD SCL	I/O	CD mecha I2C clock output	
53		CD DISC12 SW	I	12cm CD detection	
54		CD LOS SW	I	CD loading detection	
55		CD SDA	I/O	CD mecha I2C data input and output	
56		OEM DISP CE	I/O	External display chip enable	External display
57		OEM DISP CLK	I/O	External display clock	External display
58		OEM DISP DATA	I/O	External display chip data	External display
59		DSI	0	DSI control	DSI ON : H, DSI OFF : L, TDF DET=H (DSI blinks)
60	L	RESET	ı		
61		NC	-		
62	62 L	PON FL	0	O VFD power supply ON	VFD ON : H, VFD OFF : L
02	_	TONTE		VI D power supply CIV	TDF DET H (DSI blinks) : L, TDF DET L : H
63		KEY REQ	ı	Communication request from VFD driver	L : Key input
64		RDS CLK	ı	RDS decoder clock input	
65		REMOTE	I	Remote control input	
66		LX REQ S	I	Communication request from slave unit	
67		VSS0	-		
68		VDD1	-		
69		X2	-		
70		X1	-		
71		TEST	-		
72		XT2	-		
73		XT1	-		
74		VDD0	-		
75		AVDD	-		
76~78		TYPE 3~TYPE 1	ı	Destination switch	
79		RDS NOISE	ı	Tuner quality (Noise) input	
80		TUN SMETER	I	Tuner S-meter input	

• TRUTH TABLE

• TUN TYPE

	TYPE 1	TYPE 2
General models commercially-designated as pure KENWOOD brand (Initial value)	,	
Initial value setting	_	L

• RDS AFSL (AF search)

Lliah	Normal condition communication (IC10 side : High)
High	(Quality time constant long / Stereo Decoder PLL : Not hold)
Low	AF search (IC10 side : Middle)
Low	(Quality time constant short / Stereo Decoder PLL : Hold)

• POWER SUPPLY IC (IC3) CONTROL

SEL1 (Pin No. 11)

PS1-2	PS1-3	PS2-1	ILLUMI	P-CON	P-ANT
L	L	L	OFF	OFF	OFF
L	L	Н	ON	OFF	OFF
Н	L	Н	ON	ON	OFF
Н	Н	Н	ON	ON	ON

SEL2 (Pin No. 12)

PS1-1	PS2-2	AUDIO	SW5	AM
L	L	OFF	OFF	OFF
Н	L	ON	ON	OFF
Н	Н	ON	ON	ON

• CD MECHA CONTROL OPERATION

CD LOEJ	CD MOTOR	CD MECHA OPERATION
L	Н	Load
Н	Н	Eject
Hi-Z	L	Stop
Hi-Z	Н	Brake

\bullet CD MECHANISM $\mu\text{-COM}$: IC1 on X32- (CD PLAYER UNIT)

Pin No.	Active (H/L)	Pin Name	I/O	Application	Processing Operation
1		VREFL	-	Reference power supply input terminal for ADC (L).	GND
2		AVSS	-	GND terminal for ADC.	GND
3		AVCC	-	Power supply terminal for ADC.	Back-up 3.3V
4		NC	-		
5	L	20RST	0	Reset control (Decoder).	L : Reset, H : Normal condition
6		20ACK	ı	Acknowledge signal input (Decoder).	
7		20STBY	0	Standby control (Decoder).	H : Standby, L : Normal condition
8,9		NC	-		
10		20INT	ı	Interrupt signal input (Decoder).	
11		FOGUP	ı	Focus gain-up interrupt.	H : Focus gain-up, L : Normal condition
12		LZM	1	0 bit mute detection (Lch).	L : MUTE OFF, H : MUTE ON
13		RZM	ı	0 bit mute detection (Rch).	L : MUTE OFF, H : MUTE ON
14,15		NC	-		
16	L	20CS	0	Chip select signal output (Decoder).	
17	L	20LP	0	Latch pulse signal output (Decoder).	
18		20TXD0	I/O	Data output for serial data (Decoder).	Input condition is kept except in output condition.
19		20RXD0	ı	Data input for serial data (Decoder).	
20		20SCLK0	0	Clock output for serial data (Decoder).	
21		DSPTXD1	0	Data output for serial data (DSP).	
22		DSPRXD1	ı	Data input for serial data (DSP).	
23		DSPSCLK1	0	Clock output for serial data (DSP).	
24		AM0	-	ROM mode selection terminal.	H : Normal condition, L : External ROM mode
25		DVCC	-	Back-up 3.3V.	
26		X2	0	Resonator terminal.	16MHz
27		DVSS	-	GND.	
28		X1	1	Resonator terminal.	16MHz
29		AM1	ı	"H" condition is fixed.	Back-up 3.3V
30	L	RESET	ı	Reset detection.	L : Reset, H : Normal condition
31~34		NC	-		
35	L	DSPSTB	0	Data strobe signal output (DSP).	
36		DSPA0	0	Command/Parameter identification signal output (DSP).	H : Parameter data output, L : Command data output
37	L	DSPRST	0	Reset control (DSP).	
38		DSPINT	ı	Interrupt signal input (DSP).	H : Interrupt
39		NC	-		·
40		SEARCH	0	Search condition output.	H : Search, L : Normal condition
41		LOE/LIM SW	ı	Loading-end detection/Pick-up inner circumference detection	H : Inner circumference
42~49		NC	-	· ·	

Pin No.	Active (H/L)	Pin Name	I/O	Application	Processing Operation
50		FLAGIN	ı	C2Err impossibility detection.	L : Correction is possible. H : Correction is impossible.
51~61		NC	-		, , , , , , , , , , , , , , , , , , , ,
62		DVSS	-	GND.	
63	L	NMI	ı	Non-maskable interrupt request.	
64		DVCC	-	Power supply terminal.	
65~77		NC	-		
78		NC/BOOT	ı	Mask : Not connected. Flash : For writing (Active "L").	L : Write, H : Nomal condition
79,80		NC	-		
81		POND3.3	0	Digital 3.3V power-on control terminal.	H : POWER ON
82	L	MUTEL	0	Lch audio mute control.	
83	L	MUTER	0	Rch audio mute control.	
84		SDA	I/O	I2C data (Main μ-com).	
85		SCL	I/O	I2C clock (Main μ-com).	
86	L	MSTOP	I	Stand-by comeback interrupt.	L : Stop, H : Stop is released.
87		NC	-		
88	L	DMUTE	0	Driver mute.	L : MUTE ON, H : MUTE OFF
89		DVCC	-	Power supply terminal.	
90		NC	-		
91		DVSS	-	GND.	
92,93		NC	-	GND.	
94		MSEL	I	Memory capacity switching terminal.	H : Capacity size down, L : Capacity size up
95		NC	-	GND.	
96		ASEL	I	Audio output polarity switch.	H : Reverse output, L : Non-reverse output
97		CHSEL	ı	Changer destination terminal.	H : Changer, L : Other source
98		SEL0	ı	μ-com destination terminal 0.	
99		SEL1	ı	μ-com destination terminal 1.	
100		VREFH	I	Reference power supply input terminal for ADC (H).	Back-up 3.3V

TEST MODE

How to enter the test mode

While simultaneously press PRESET "1" key and PRESET "3" key, press "RESET" button.

How to release the test mode

Press "RESET" button. (The release cannot be achieved in the conditions of POWER OFF and ACC OFF.)

Initial conditions of the test mode

- The source is "STANDBY".
- The displays all lit up.
- The volume is at -10dB (The display shows "30".)
- · LOUD is "OFF".
- · CRSC is "OFF".
- SYSTEM Q is "NATURAL".
- BEEP is sounded at all time with the key depressed for less than 1 second.

Special displays when all indicator lights are lighted

When "PRESET" keys are pressed while all indicators for the STANDBY sources are lighted, the following displays will appear.

PRESET	Version display (8 digits : month, date, hour, minute)		
"1" key	(Display) : x x x x x x x x x		
PRESET	Serial number display (8 digits)		
"2" key	(Display): x x x x x x x x		
PRESET	When pressed for less than 1 second : POWER ON		
"3" key	time display (STANDBY source time is not counted.)		
	(Display): PON x x x x x MAX 60,000 (hours)		
	* The display is cleared by pressing the key for more		
	than 2 seconds.		
PRESET	When pressed for less than 1 second : CD operation		
"4" key	time display		
	(Display): PLY x x x x x MAX 60,000 (hours)		
	* The display is cleared by pressing the key for more		
	than 2 seconds.		

PRESET	When pressed for less than 1 second : CD EJECT
"5" key	number display
	(Display): EJC x x x x x MAX 60,000 (times)
	* The display is cleared by pressing the key for more
	than 2 seconds.
PRESET	When pressed for less than 1 second : Panel open/
"6" key	close number display
	(Display): PNL x x x x x MAX 600,000 (times)
	* The display is cleared by pressing the key for more
	than 2 seconds.
"FM"	ROM CORRECTION version display
key	(Display)
	Effective : ROM _ Rxxx (x : number)
	Not effective (When not able to read) : ROM _ R
	Not effective (When version is different) : ROM _ R***
"AM"	IC10 adjustment status (Refer to "ADJUSTMENT" on
key	the following page.)
	(Display)
	Adjustment complete : E2P _ OK
	Adjustment not completed : E2P _ ER
	Communication error : I2C _ ER
	* When other than "E2P _ OK", Pin No. 30 will
	become "H".
"I◀◀"	Mechanism error detection status
key	• Communication error \rightarrow Error No. 1 \rightarrow Error No. 2 \rightarrow
	Error No. 3 \rightarrow Communication error (Error No. 1 is the
	most recent error.)
	(Display)
	Communication OK : I2C _ OK
	Communication error : I2C _ NG
	Not detected : ERR _ n (n : 1~3)
	Detected : ERR _ n-** (** : error code)
	* The display is cleared by pressing the key for more
	than 2 seconds.

SPECIAL MODE

Security (KDC-W4531/W4531Y only)

• How to enter the forced POWER ON mode

While "---" is being displayed, while simultaneously pressing "Q" key and "4" key, press "RESET" button, With this, it is possible to turn the power on for 30 minutes only.

How to register the security code on the "Car Audio Passport" sheet after replacing E2PROM (IC11)

- 1. Enter the test mode. (Refer to "How to enter the test mode".)
- In the test mode, press "MENU" key to enter the MENU mode

When "SECURITY" is displayed, press "▶II" key (for less than 1 second) to enter the security registration mode.

3. Input the security code, using "FM" / "AM" / "I◄◄" / "▶▶I" keys.

"FM" key : number up / "AM" key : number down
"▶\" key : cursor to right / "I◄\" key : cursor to left

- 4. After inputting the code, press "▶II" key for 3 seconds or more which causes "RE-ENTER" to be displayed. This is for "confirming" the code. Use the method in above No. "3" to re-enter the code.
- Then, press "►II" key for 3 seconds or more, which will display "APPROVED". This completes the security code registration.
- Release the test mode. (Refer to "How to release the test mode".)
- * All clear cannot be used to clear the security code.

DC offset error detection confirmation mode

Confirmation mode:

While depressing PRESET "3" key and PRESET "6" key simultaneously, press on the "RESET" button.

(Display) Detected : DC _ ERR _ _ Not detected : DC _ OK _ _ _

* By pressing "TI" or "AUTO" key while "DC _ ERR _ _" is being displayed, detection status is cleared. This will result in the display of "DC OK ".

Release Method: Press "RESET" button.

Mechanism memory clear confirmation mode

Confirmation mode:

While depressing "ATT" key and "Q" key simultaneously, press "RESET" button.

(Display): MEM _ CLR _

* 2 seconds after the confirmation mode boots up, Mechanism memory clear as a result is displayed.

(Display) Clear status display normal completion

: CD _ O _ _ _

Clear status display abnormal completion

: CD _ X _ _ _

Release Method: Press "RESET" button.

ADJUSTMENT

After replacing the following parts, adjust as follows.

RE	EPLACED PARTS	ADJUSTMENT ITEMS			
Ref. No.	Function / Parts name	1st AM MIX	2nd AM MIX	FM antenna	
IC10	E-VOL & TUNER	YES	YES	YES	
IC11	E2PROM	YES	YES	YES	
L507	VCO COIL	YES	YES	YES	
L508	1st AM MIX IFT	YES	-	-	
L509	2nd AM MIX IFT	-	YES	-	
L518	FM ANTENNA COIL	-	-	YES	
D504	VARIABLE	YES	YES	YES	
	CAPACITANCE DIODE				
D506	VARIABLE	YES	YES	YES	
	CAPACITANCE DIODE				
X501	CRYSTAL RESONATOR	YES	YES	YES	

• 1st AM MIX / 2nd AM MIX ADJUSTMENT

ADJUSTMENT POINT : L508 (1st AM MIX) / L509 (2nd AM MIX)

VOLTAGE VALUE CHECK POINT : S-METER check land (X34-) Adjust so that S-METER voltage value becomes maximum.

SG setting

DESTINATION	FREQUENCY	MODULATION	ANTENNA INPUT
Europe	999kHz	OFF	35dBμV (EMF)
Except Europe	1000kHz	OFF	35dBμV (EMF)

● FM ANTENNA ADJUSTMENT

ADJUSTMENT POINT: L518

VOLTAGE VALUE CHECK POINT: S-METER check land (X34-) Adjust so that S-METER voltage value becomes maximum.

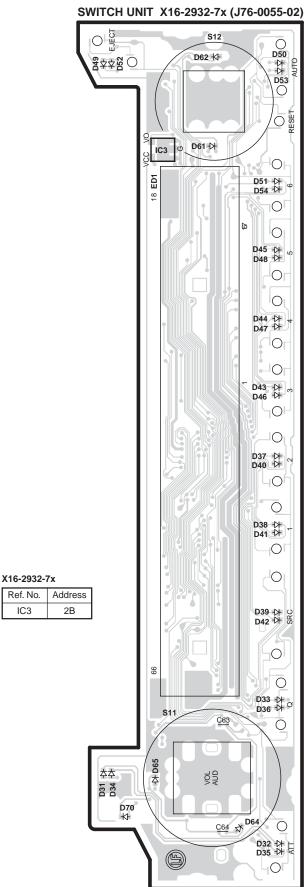
SG setting

J			
DESTINATION	FREQUENCY	MODULATION	ANTENNA INPUT
Europe	87.5MHz	OFF	5dBμV (LOAD) or
			11dBμV (EMF)
Except Europe	87.9MHz	OFF	5dBμV (LOAD) or
			11dBμV (EMF)

2

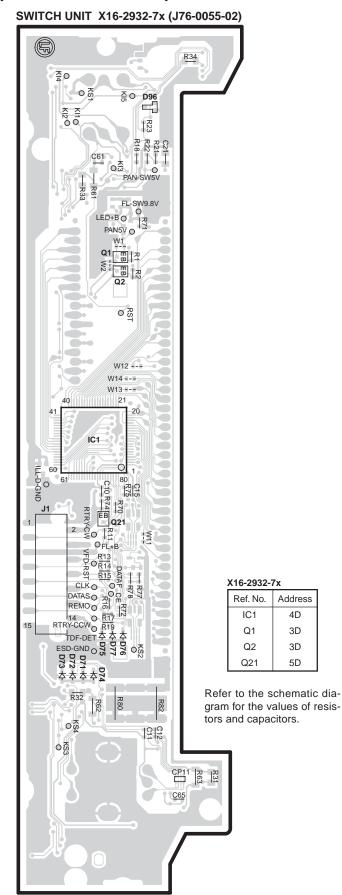
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6

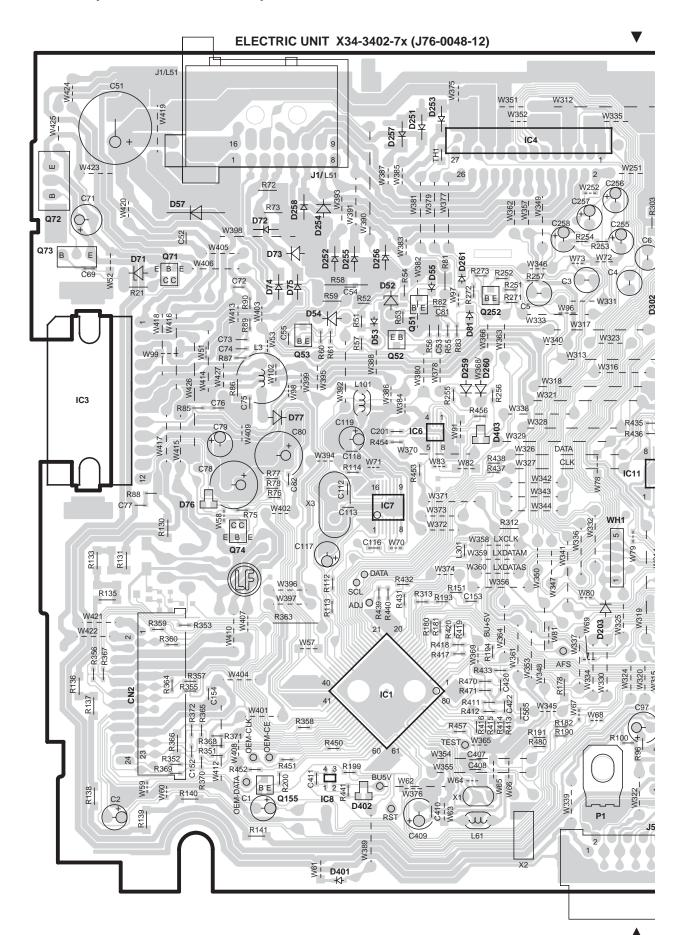


(FOIL SIDE VIEW)

С



PC BOARD (FOIL SIDE VIEW)

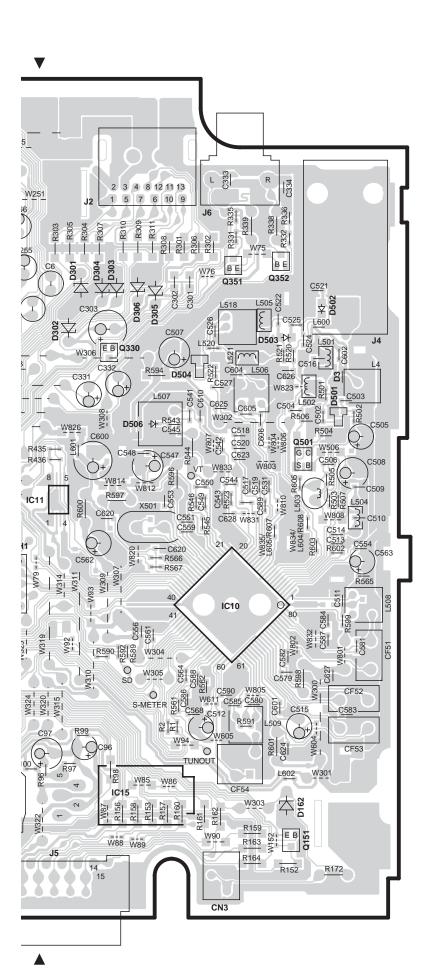


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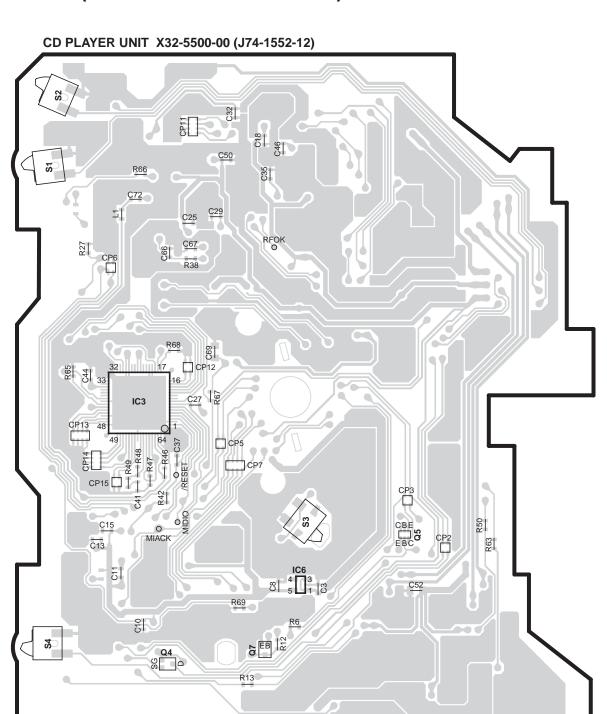
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X34-3402-7x

A34-3402-7X				
Ref. No.	Address			
IC1	61			
IC3	4G			
IC4	2J			
IC6	41			
IC7	41			
IC8	6H			
IC10	5L			
IC11	4K			
IC15	6K			
Q51	31			
Q52	31			
Q53	3H			
Q71	3G			
Q72	2F			
Q73	3F			
Q74	5H			
Q151	6L			
Q155	6H			
Q252	31			
Q330	3K			
Q351	3L			
Q352	3L			
Q501	4L			

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (COMPONENT SIDE VIEW)



X32-5500-00

Ref. No.	Address				
IC3	4Q				
IC6	5R				
Q4	5Q				
Q5	5S				
Q7	5R				

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CD PLAYER UNIT X32-5500-00 (J74-1552-12) C48 —— C51 C49 —— C54 VR O - R64 ATESTO — C47 C62 C61 75 82 CN2 0 FLAG TXO R39 O O OHOLD MIRR LOCK ADGINO R40 TRK INO OTZD TRK OUT FCS DOWNO FCS UPO 25 - C30 CP8 Q10 C22 C23 D3.3VO C21 R9 D2 5 C7 D2 R22 O O_{12E}JE BCKIA O IC9 ₹0 0_{A.+8V} SLED IN /EJECT R2 O SLED OUT O /LOAD O Lch o LOS o A.GND R33 -R32 -R31 -O Rch DATA O /MUTELO C19 BU2.5V 댨 /MUTER O OSTBY O_{/MRST} **C**9 8EJEO OREQ O_{/MSTOP} D.GND O R28 $\mathsf{D}.\mathsf{GND}_\mathsf{O}$ D5Vo C42 C43 o LO/EJ **MOTOR O** R5 /MICKO O S.7.5V TXD10 O S.GND C14 RXD /MUTELO DEBC /RESETO CBE R16 $\Box \hat{\mathbf{P}}$ A0 /STB O O O OINT SEARCH O/RST R15 BU3.3V O R14 IC1 POND3.3 OT1 LIM-SW OT2 I-SW O O O T3 T4 FLAGIN 51 75 D 8 4 D IC4 C58 Days SPDL O Q1 0MD | 66 SDO ± 14 95 0E 30 Sp OFD --- R52 FCS

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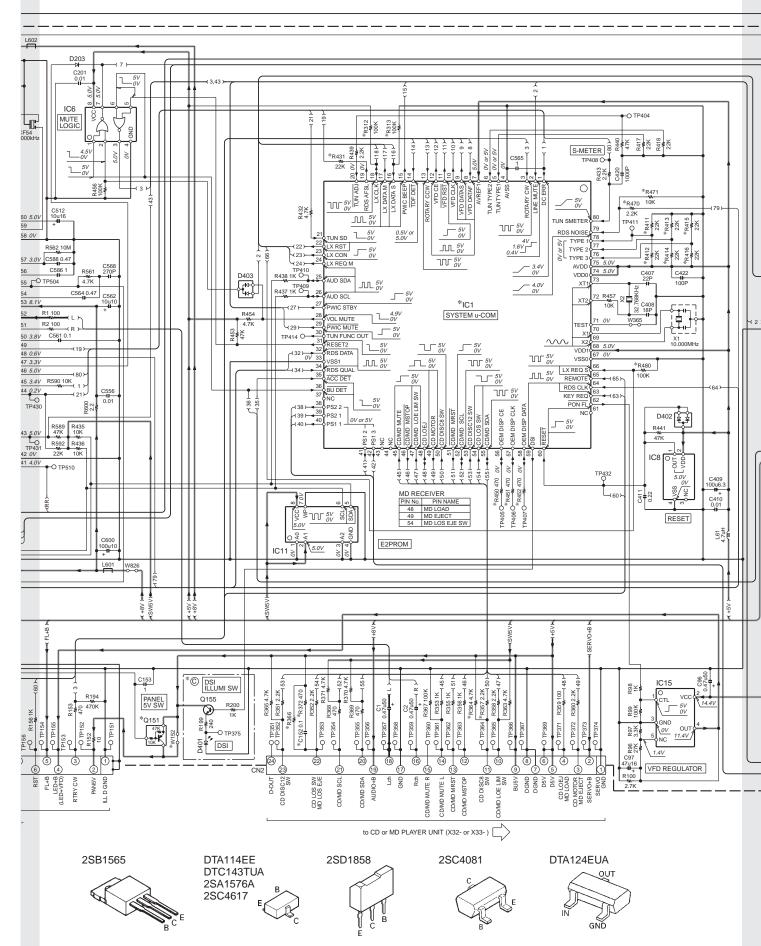
X32-5500-00

Ref. No.	Address	Ref. No.	Address
IC1	5X	Q1	5X
IC2	2W	Q3	5V
IC4	5V	Q6	5W
IC5	3V	Q8	2V
IC7	4W	Q9	3V
IC8	3X	Q10	3V
IC9	3W		

Refer to the schematic diagram for the values of resistors and capacitors.

A 2/2 X16-

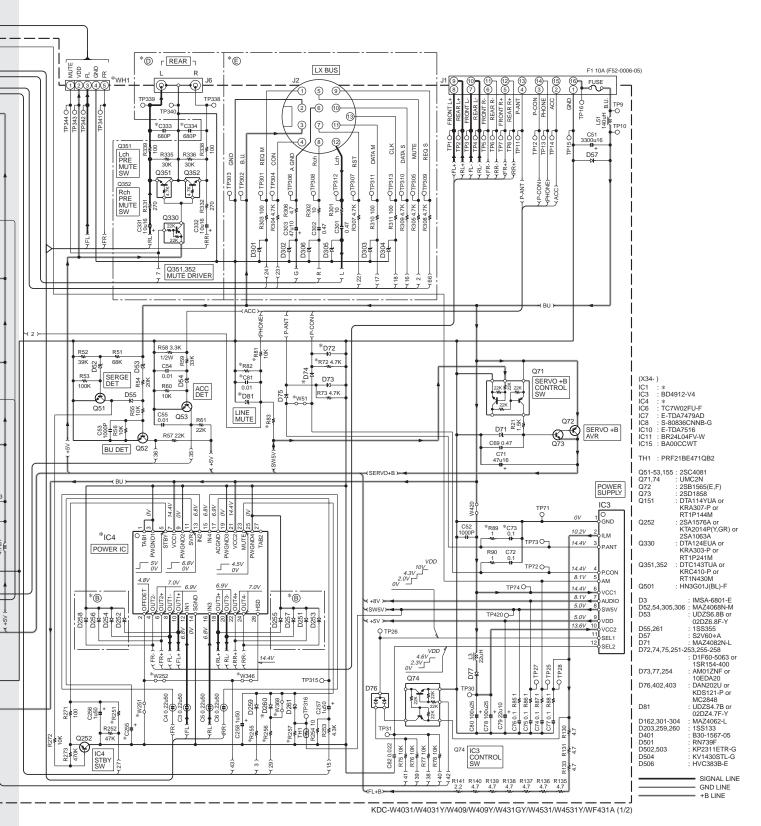
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KDC-W4031/W4031Y/W409/W409Y KDC-W431GY/W4531/W4531Y/WF431A



UMC2N



DAN202U



DA204U DTA114YUA



TC7SH08FU



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(X34.	3xx	Y-Y	(Y

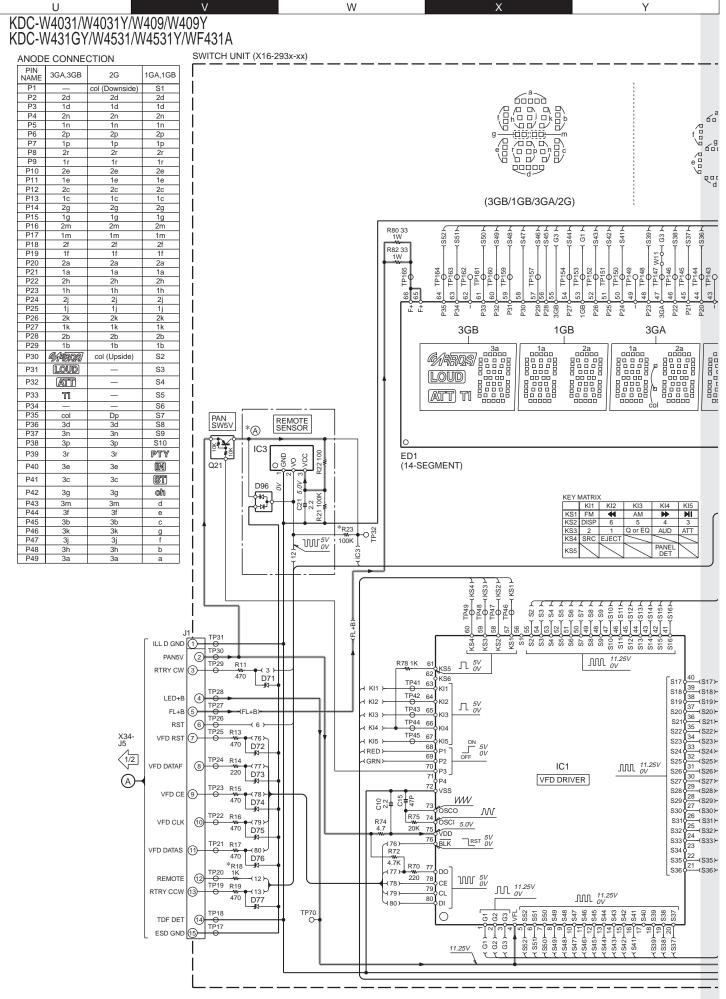
CATEGORY/ FUNCTION	MODEL NAME	DESTI- NATION	X34-340x-xx	X34-341x-xx	X34-365x-xx	A	B	©	(D)	E	C73	C81	C152	C255	C333, 334	C526	C604	C605, 606	CN3	D72, 74	D81	D162	D260	Q151	IC1
	E303/S	J	0-01	-	-	-	YES	YES	YES	YES	YES	YES	-	33u	-	YES	68P	6P	-	YES	YES	YES	YES	YES	784225GC256A
CD RECEIVER	KDC-MP2028	K	0-10	-	-	-	YES	YES	YES	YES	YES	YES	-	33u	-	-	47P	1P	-	YES	YES	YES	YES	YES	784225GC256A
(MP3/WMA)	KDC-MP228	K	0-11	-	-	-	YES	YES	YES	YES	YES		-	33u	-	-	47P	1P	-	YES			YES	YES	784225GC256A
l ` ′	KDC-MP3029	M	0-22	-	-	-	-		YES	-		YES	-	10u	-	-	47P	1P	-	YES		YES	-	YES	784225GC256A
	KDC-MP4029/G	M	0-21	-	-	-	YES	YES	YES	YES	YES	YES	-	33u	-	-	47P	1P	-	YES	YES	YES	YES	YES	784225GC256A
14-SEGMENT DISPLAY	KDC-W4031/Y KDC-W409/Y	E	2-72	-	-	YES	YES	YES	YES	-	-	YES	-	33u	YES	-	47P	1P	YES	YES	YES	YES	YES	YES	784225GC256A
DISPLAT	KDC-W409/1	Ē	2-73	-	_	_	\vdash	VEC	YES			YES		10u	YES		47P	1P	-	YES	YES			YES	784225GC256A
	KDC-W451G1 KDC-W4531/Y	Ē	2-73	-	-	VEQ	YES			VES	-	YES	-	33u	YES	-	47P	1P	YES			YES	YES	YES	784225GC256A
	KDC-W4331/1	Ē	2-71	-	-	YES	TES	YES		IES	-	YES	-	10u	YES	-	47P	1P	YES		YES		TES	YES	784225GC256A
	KDC-228	K	2-14	0-10		ILS	-		YES	VEC	YES	YES	_	10u	IL3	-	47P	1P	ILS	YES			-	YES	784225GC250A
CD RECEIVER	KDC-228 KDC-2029	M		0-10	0-22	-		YES			YES			10u	-	-	47P	1P	-	YES		YES		YES	784225GC257A
CD RECEIVER	KDC-2029	M		-	0-22	H.	-					YES	-	10u	-		47P	1P				YES	-	YES	784225GC257A
	KDC-3029R	M		-	0-21	YES	- 1		YES			YES		10u	YES	-	47P	1P	-			YES	-	YES	784225GC257A
	KDC-3023K	E		2-71	- 0-21	YES		YES		ILO	-	YES	-	10u	YES	-	47P	1P	YES				-	YES	784225GC257A
14-SEGMENT	KDC-3031G/Y	Ē		2-72	-	YES		YES		-	-	YES		10u	YES	-	47P	1P				YES	-	YES	784225GC257A
DISPLAY	KDC-309A	Ē		2-71	-	YES		YES			-	YES		10u	YES	-	47P	1P	YES				-	YES	784225GC257A
DISPLAT	KDC-309G	Ē	-	2-72	-	YES		YES		-	-	YES	-	10u	YES	-	47P	1P		YES			-	YES	784225GC257A
	KDC-F331A	Ē	-	2-73	-	YES		YES		-	-	YES	-	10u	YES	-	47P	1P	YES			YES	-	YES	784225GC257A
	KDC-F331G	Ē	-	2-74	-	YES		YES		-	-	YES	-	10u	YES	-	47P	1P	YES				-	YES	784225GC257A
	E202	J	-	-	0-00	-		YES	-	-	YES	-	-	10u	-	YES	68P	6P	-	-	-	-	-	YES	784225GC258A
CD RECEIVER	RDT-101	J	-	-	0-01	-	- 1	YES	-	-	YES	-	-	10u	-	YES	68P	6P	-	-	-	-	-	YES	784225GC258A
OD INCOCITEIN	KDC-1028	K	-	0-11	-	-	- 1	YES	YES	-	YES	YES	-	10u	-	-	47P	1P	-	YES	YES	YES	-	YES	784225GC258A
	KDC-128/CR	K	-	0-12	-	-	- 1	YES	YES	-	YES	YES	-	10u	-	-	47P	1P	-	YES		YES	-	YES	784225GC258A
7-SEGMENT	KDC-129/S	M	-	-	0-25	-	-	YES	YES	-	YES	YES	-	10u	-	-	47P	1P	-	YES	YES	-	-	YES	784225GC258A
DISPLAY	KDC-229	M	-	-	0-24	-	-	YES	YES			YES	-	10u	-	-	47P	1P	-	YES	YES	-	-	YES	784225GC258A
	KDC-2031SA/Y	Е	-	2-75	-	-	-	YES	YES	-	-	YES	-	10u	YES	-	47P	1P	-	YES	YES	-	-	YES	784225GC258A
	KDC-2031SG/Y	Е	-	2-76	-	-	-	YES	YES	-	-	YES	-	10u	YES	-	47P	1P	-	YES	YES	-	-	YES	784225GC258A
MD RECEIVER	E303MD	J	0-02	-	-	-	-	-	-	YES	YES	YES	YES	10u	-	YES	68P	6P	-	-	YES	-	-	-	784225GC259A

CATEGORY/ FUNCTION	MODEL NAME	DESTI- NATION	X34-340x-xx	X34-341x-xx	X34-365x-xx	IC4	R72	R81	R82	R83	R89	R162	R172	R251	R255	R256	R257	R312, 313,480	R357, 364	R366	R372	R411	R412	R413	R414
	E303/S	J	0-01	-	-	E-TDA7560A	YES	YES	47K	100K	YES	YES	-	33K	220	22K	30K	YES	YES	4.7K	-	-	YES	-	YES
CD RECEIVER	KDC-MP2028	K	0-10	-	-	E-TDA7560A	YES	YES	22K	47K	YES	YES	YES	33K	220	22K	30K	YES	-	4.7K	-	YES	-	YES	-
(MP3/WMA)	KDC-MP228	K	0-11	-	-	E-TDA7560A	YES	YES	22K	47K	YES	YES	YES	33K	220	22K	30K	YES	-	4.7K	-	YES	-	YES	-
	KDC-MP3029	M	0-22	-	-	TB2904HQ	YES	YES	22K	47K	YES	YES	-	150K	330	150K	12K	-	-	4.7K	-	YES	-	YES	-
	KDC-MP4029/G	M	0-21	-	-	E-TDA7560A	YES	YES	22K	47K	YES	YES	-	33K	220	22K	30K	YES	-	4.7K	-	YES	-	-	YES
14-SEGMENT DISPLAY	KDC-W4031/Y KDC-W409/Y	E	2-72	-	-	E-TDA7560A	YES	YES	22K	47K	-	YES	YES	33K	220	22K	30K	-	-	4.7K	-	-	YES	YES	-
	KDC-W431GY	Е	2-73	-	-	TB2904HQ	YES	YES	22K	47K	-	-	-	150K	330	150K	12K	-	-	4.7K	-	YES	-	-	YES
	KDC-W4531/Y	Е	2-71	-	-	E-TDA7560A	YES	YES	22K	47K	-	YES	YES	33K	220	22K	30K	YES	-	4.7K	-	-	YES	YES	-
	KDC-WF431A	Е	2-74	-	-	TB2904HQ	YES	YES	22K	47K	-	YES	YES	150K	330	150K	12K	-	-	4.7K	-	-	YES	-	YES
	KDC-228	K	-	0-10	-	TB2903HQ	YES	YES	22K	47K	YES	YES	YES	150K	330	150K	12K	YES	-	4.7K	-	YES	-	YES	-
CD RECEIVER	KDC-2029	M	-	-	0-22	TB2903HQ	YES	YES	22K	47K	YES	YES	-	150K	330	150K	12K	YES	-	4.7K	-	YES	-	-	YES
OD INCOLIVEIN	KDC-3029	M	-	-	0-23	TB2903HQ	YES	YES	22K	47K	YES	YES	-	150K	330	150K	12K	YES	-	4.7K	-	-	YES	-	YES
	KDC-3029R	M	-	-	0-21	TB2903HQ	YES	YES	22K	47K	-	YES	-	150K	330	150K	12K	YES	-	4.7K	-	YES	-	-	YES
	KDC-3031A/Y	Е	-	2-71	-	TB2904HQ	YES	YES	22K	47K	-	YES	YES	150K	330	150K	12K	-	-	4.7K	-	-	YES	YES	-
14-SEGMENT	KDC-3031G/Y	Е	-	2-72	-	TB2904HQ	YES	YES	22K	47K	-	YES	YES	150K	330	150K	12K	-	-	4.7K	-	-	YES	YES	-
DISPLAY	KDC-309A	Е	-	2-71	-	TB2904HQ	YES	YES	22K	47K	-	YES	YES	150K	330	150K	12K	-	-	4.7K	-	-	YES	YES	-
	KDC-309G	Е	-	2-72	-	TB2904HQ	YES	YES	22K	47K	-	YES	YES	150K	330	150K	12K	-	-	4.7K	-	-	YES	YES	-
	KDC-F331A	Е	-	2-73	-	TB2904HQ		YES	22K	47K	-	YES	YES	150K	330	150K	12K	-	-	4.7K	-	-	YES	YES	-
	KDC-F331G	Е	-	2-74		TB2904HQ	YES	YES	22K	47K	-	YES	YES	150K	330	150K	12K	-		4.7K	-	-	YES	YES	-
	E202	J	-	-	0-00	TB2903HQ	-	-	47K	-	YES	-	-	150K	330	150K	12K	-	YES	4.7K	-	-	YES	-	YES
CD RECEIVER	RDT-101	J	-	-	0-01	TB2904HQ	-	-	47K	-	YES	-	-	150K	330	150K	12K	-	YES	4.7K	-	-	YES	-	YES
	KDC-1028	K	-	0-11	-	TB2903HQ	YES	YES	22K	47K	YES	YES	-	150K	330	150K	12K	-	-	4.7K	-	YES	-	YES	-
	KDC-128/CR	K	-	0-12	-	TB2904HQ			22K	47K	YES	YES	-	150K	330	150K	12K	-	-	4.7K	-	YES	-	YES	-
7-SEGMENT	KDC-129/S	M	-	-	0-25	TB2904HQ	YES	YES	22K	47K	YES	-	-	150K	330	150K	12K	-	-	4.7K	-	YES	-	-	YES
DISPLAY	KDC-229	M	-	-	0-24	TB2903HQ	YES	YES	22K	47K	YES	-	-	150K	330	150K	12K	-	-	4.7K	-	YES	-	-	YES
	KDC-2031SA/Y	Е	-	2-75	-	TB2904HQ			22K	47K	-	-	-	150K	330	150K	12K	-	-	4.7K	-	-	YES	YES	-
	KDC-2031SG/Y	Е	-	2-76	-	TB2904HQ	YES	YES	22K	47K	-	-	-	150K	330	150K	12K	_	-	4.7K	-	-	YES	YES	-
MD RECEIVER	E303MD	J	0-02	-		TB2904HQ	-	YES	47K	100K	YES		-	150K	330	150K	7.5K	YES		100K	YES	-	YES	-	YES

CATEGORY/ FUNCTION	MODEL NAME	DESTI- NATION	X34-340x-xx	X34-341x-xx	X34-365x-xx	R415	R416	R431, 470	R450- 452	R471	W51	W152	W251, 346,368	W252	WH1
	E303/S	J	0-01	-	-	YES	-	-	-	YES	-	-	-	YES	-
CD RECEIVER	KDC-MP2028	K	0-10	-	-	YES	-	-	YES	YES	-	-	-	YES	YES
(MP3/WMA)	KDC-MP228	K	0-11	-	-	YES	-	-	YES	YES	-	-	-	YES	-
` ′	KDC-MP3029	M	0-22	-	-	-	YES	-	-	YES	-	-	YES	-	-
	KDC-MP4029/G	M	0-21		-	YES	-	-	-	YES	-	-	-	YES	-
14-SEGMENT	KDC-W4031/Y	E	2-72	_	_	_	YES	YES	_		YES	_		YES	
DISPLAY	KDC-W409/Y	E			-	-		IES	-	-	IES	-	_	IES	_
	KDC-W431GY	E	2-73	-	-	-	YES	-	-	YES	YES	-	YES	-	-
	KDC-W4531/Y	E	2-71	-	-	YES	-	YES	-		YES	-	-	YES	-
	KDC-WF431A	E	2-74	-	-	-	YES	YES	-		YES	-	YES	-	-
	KDC-228	K	-	0-10	-	YES	-	-	YES	YES	-	-	YES	-	-
CD RECEIVER	KDC-2029	M	-	-	0-22	-	YES	-	-	YES	-	-	YES	-	-
-	KDC-3029	M	-	-	0-23	-	YES	-	-	YES	-		YES	-	YES
	KDC-3029R	M	-	-	0-21	YES		YES	-	-	YES		YES	-	-
	KDC-3031A/Y	E	-	2-71	-	-	YES	YES	-	-	YES		YES	-	-
14-SEGMENT	KDC-3031G/Y	E	-	2-72	-	YES		YES	-	-	YES		YES	-	-
DISPLAY	KDC-309A	E	-	2-71	-	-	YES	YES	-	-	YES	-	YES	-	-
	KDC-309G	E	-	2-72	-	YES	-	YES	-	-	YES	-	YES	-	-
	KDC-F331A	E	-	2-73	-	-	YES	YES	-	-	YES	-	YES	-	-
	KDC-F331G	E	-	2-74	-	YES	-	YES	-	-	YES	-	YES	-	-
	E202	J	-	-	0-00	-	YES	-	-	YES		-	YES	-	-
CD RECEIVER	RDT-101	J	-	-	0-01	-	YES	-	-	YES	-		YES	-	-
	KDC-1028	K	-	0-11	-	-	YES	-	-	YES	-	-	YES	-	YES
	KDC-128/CR	K	-	0-12	-	-	YES	-	-	YES	-	-	YES	-	-
7-SEGMENT	KDC-129/S	M	-		0-25	-	YES	-	-	YES	-	-	YES	-	-
DISPLAY	KDC-229	M	-	-	0-24	-	YES	-	-	YES	-	-	YES	-	-
1	KDC-2031SA/Y	E	-	2-75	-	-	YES	-	-	YES	YES	-	YES	-	-
	KDC-2031SG/Y	E	-	2-76	-	YES	-	-	-	YES	YES	-	YES	-	-
MD RECEIVER	E303MD	J	0-02	-	-	YES	-	-	-	YES	-	YES	YES	-	-

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). △ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter.
 Values may vary slightly due to variations between individual instruments or/and units.

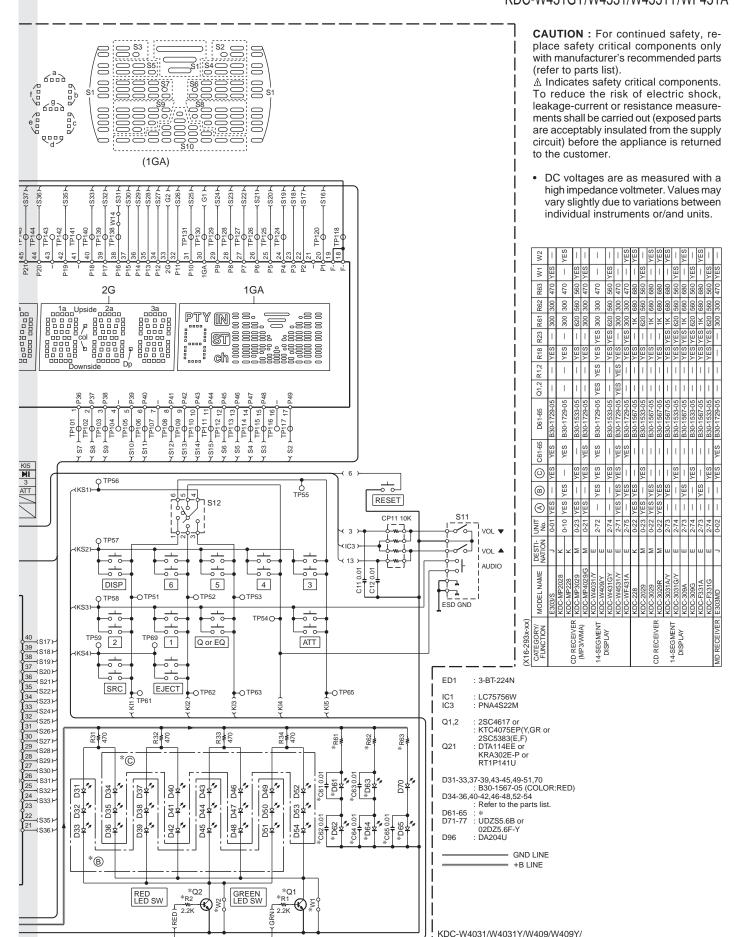


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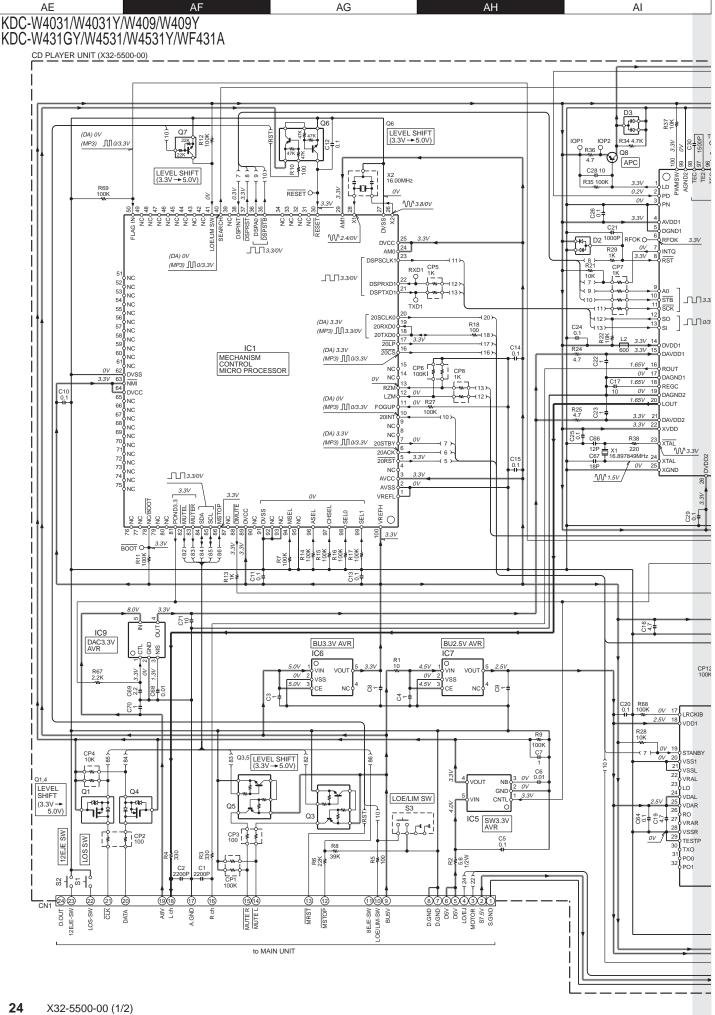
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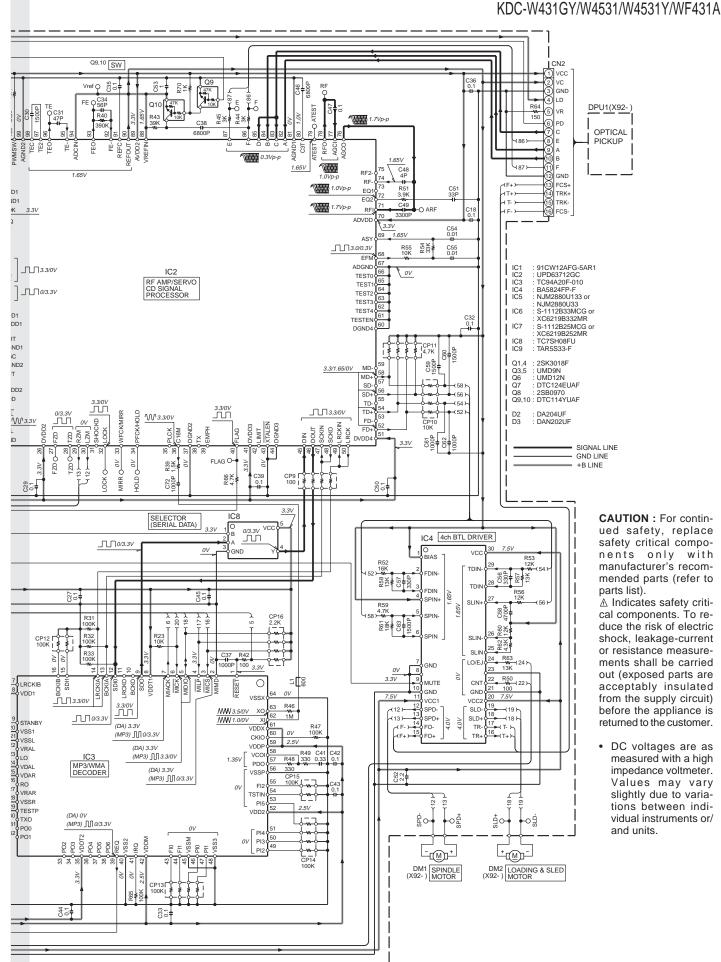


W431GY/W4531/W4531Y/WF431A (2/2)



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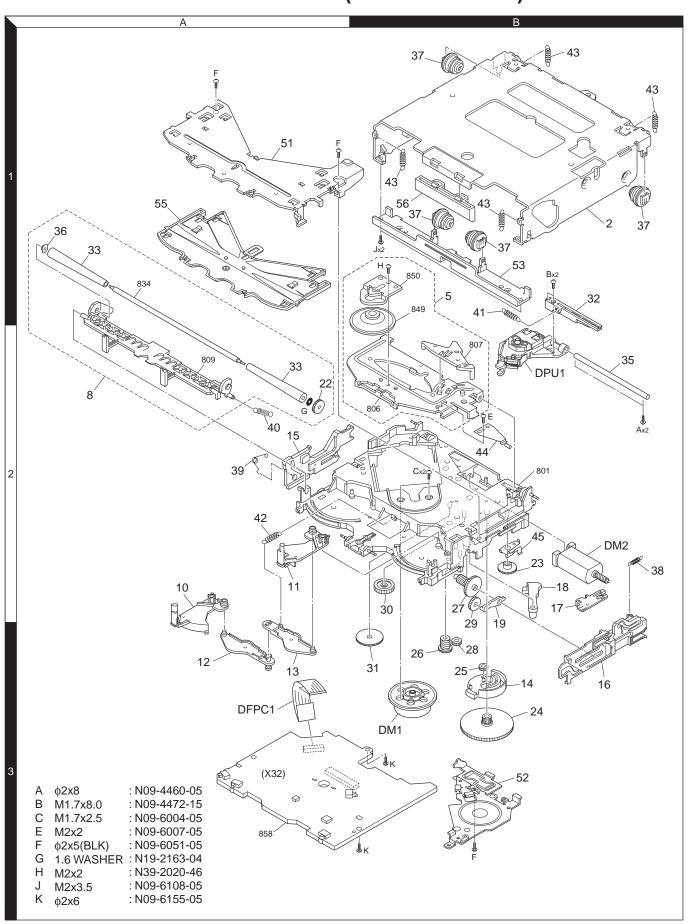
ued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

CAUTION: For contin-

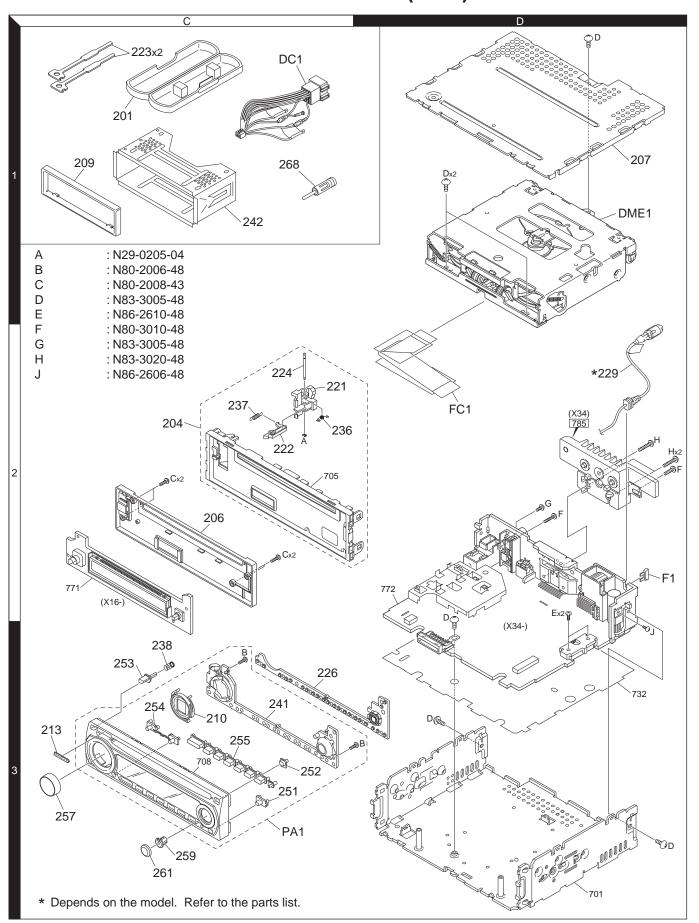
cal components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

· DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/ and units.

EXPLODED VIEW (CD MECHANISM)



EXPLODED VIEW (UNIT)



KDC-W4031/W4031Y/W409/W409Y KDC-W431GY/W4531/W4531Y/WF431A

PARTS LIST

* New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
KDC-W4	•		31Y/W409/W409Y	/W431GY/W4531/W4531Y/W	F431A	-		*	H54-3298-03 H54-3299-03	ITEM CARTON CASE (KDC-W4531) ITEM CARTON CASE (KDC-W4031)	E
201 204 206 207	1C 2C 2C 1D		A02-2736-03 A22-2863-13 A46-1815-01 A52-0804-12	PLASTIC CABINET ASSY SUB PANEL ASSY REAR COVER TOP PLATE		- - -		* * * *	H54-3300-03 H54-3301-03 H54-3310-03	ITEM CARTON CASE (KDC-W409)	E2 E3
PA1 PA1	3C 3C	*	A64-3454-02 A64-3455-02	PANEL ASSY PANEL ASSY	EE7 E1E8	-		* * *	H54-3311-03 H54-3312-03 H54-3361-03	ITEM CARTON CASE (KDC-W4031Y) ITEM CARTON CASE (KDC-W409Y) ITEM CARTON CASE (KDC-WF431A)	E8 E9 E6
PA1 PA1 PA1	3C 3C 3C	* * *	A64-3456-02 A64-3457-02 A64-3466-02	PANEL ASSY PANEL ASSY PANEL ASSY	E2E9 E3 E6	241 242	3C 1C	*	J19-7046-01 J21-9716-03	HOLDER MOUNTING HARDWARE ASSY	
			B46-0100-50 B46-0100-50 B46-0182-14 B46-0606-04 B46-0612-14	WARRANTY CARD WARRANTY CARD ID CARD ID CARD ID CARD	EE1E2 E6 E1E2E6 E3E8E9 EE7	251 252 253 254 255	3C 3C 3C 3C 3C	* * * * *	K24-4279-04 K24-4280-04 K24-4281-04 K25-1689-03 K25-1690-02	PUSH KNOB (AUTO or TI) PUSH KNOB (EJECT) PUSH KNOB (RELEASE) PUSH KNOB (ATT/Q) PUSH KNOB (SRC/PRESET/RESET)	E3E6
		*	B64-2932-00 B64-2932-00 B64-2932-00 B64-2933-00 B64-2933-00	INST. MANUAL (ENGLISH) INST. MANUAL (ENGLISH) INST. MANUAL (ENGLISH) INST. MANUAL (FRE, GER) INST. MANUAL (FRE, GER)	EE1E2 E3E7E8 E9 EE1E2 E6	255 255 257 259 261	3C 3C 3C 3C 3C	* * * * *	K25-1691-02 K25-1691-02 K29-7132-03 K29-7134-03 K29-7139-03	PUSH KNOB (SRC/PRESET/RESET) PUSH KNOB (SRC/PRESET/RESET) KNOB ASSY (VOL) KNOB BASE (FM/AM) KEY TOP (FM/AM)	
		* * * *	B64-2934-00 B64-2935-00 B64-2936-00 B64-2936-00	INST. MANUAL (DUT, ITA) INST. MANUAL (SPA, POR) INST. MANUAL (RUSSIAN) INST. MANUAL (RUSSIAN)	EE1E2 EE1E2 E3E7E8 E9	261 261 A	3C 3C 2C	*	K29-7139-03 K29-7140-03 N29-0205-04	KEY TOP (FM/AM) KEY TOP (FM/AM) RETAINING RING (1.5)	E7E8E9 E3E6
- 209 209 209	1C 1C 1C 3C	* ****	B64-2939-00 B64-2940-00 B07-3122-01 B07-3122-01 B07-3123-01	INST. MANUAL (POL, CZE, HUN) INST. MANUAL (CRO, SLO) ESCUTCHEON ESCUTCHEON ESCUTCHEON	E8 EE1E3 E6E7E8 E2E9	B C D E	3C 2C 3D 2D 1C	*	N80-2006-48 N80-2008-43 N83-3005-48 N86-2610-48	PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW ANTENNA ADAPTOR	
210 213	3C	*	B19-2304-03 B43-1518-04	LIGHTING BOARD BADGE		DME1	1D		T90-0534-05 X92-4850-00	ANTENNA ADAPTOR MECHANISM ASSY	
221	2C		D10-4446-03	LEVER				,	SWITCH UNIT	(X16-2932-7x)	
222 223 224 226	2C 1C 2C 3C		D10-4447-03 D10-4589-04 D21-2329-04 E29-2027-02	LEVER LEVER SHAFT CONDUCTIVE RUBBER	55450	D31-33 D31-33 D31-33 D34-36 D34-36			B30-1567-05 B30-1567-05 B30-1567-05 B30-1533-05 B30-1533-05	LED (RED) LED (RED) LED (RED) LED (PG) LED (PG)	EE1E2 E6E7E8 E9 EE1E2 E3E7E8
229 229 229 DC1	2D 2D 2D 1C	****	E30-6402-05 E30-6402-05 E30-6402-05 E30-6413-05	CORD WITH CONNECTOR CORD WITH CONNECTOR CORD WITH CONNECTOR DC CORD	EE1E2 E6E7E8 E9	D34-36 D37-39 D37-39 D37-39			B30-1533-05 B30-1567-05 B30-1567-05 B30-1567-05	LED (PG) LED (RED) LED (RED) LED (RED)	E9 EE1E2 E6E7E8 E9
DC1 FC1	1C 2D	*	E30-6427-05 E39-0718-05	DC CORD FLAT CABLE		D40-42			B30-1533-05	LED (PG)	EE1E2
F1 F1	2D 2D		F52-0006-05 F52-0023-05	FUSE (MINI BLADE TYPE) (10A) FUSE (MINI BLADE TYPE) (10A)		D40-42 D40-42 D43-45 D43-45			B30-1533-05 B30-1533-05 B30-1567-05 B30-1567-05	LED (PG) LED (PG) LED (RED) LED (RED)	E3E7E8 E9 EE1E2 E6E7E8
236 237 238	2C 2C 3C	*	G01-2987-04 G01-3096-04 G01-3244-04	TORSION COIL SPRING EXTENSION SPRING COMPRESSION SPRING		D43-45 D46-48 D46-48			B30-1567-05 B30-1533-05 B30-1533-05	LED (RED) LED (PG) LED (PG)	E9 EE1E2 E3E7E8
- - -		*	H10-4919-12 H25-0329-04 H25-0337-04 H25-1111-04	POLYSTYRENE FOAMED FIXTURE PROTECTION BAG (280X450X0.03) PROTECTION BAG (180X300X0.03) PROTECTION BAG (280X450X0.03)		D46-48 D49-51 D49-51			B30-1533-05 B30-1567-05 B30-1567-05	LED (PG) LED (RED) LED (RED)	E9 EE1E2 E6E7E8
-			H25-1111-04	PROTECTION BAG (280X450X0.03)		D49-51			B30-1567-05	LED (RED)	E9

SWITCH UNIT (X16-2932-7x)

Ref. No.	рръ	N e w	Parts No.	Des	cription		Desti- nation	Ref. No.	A d d	N e w	Parts No.	De	escription	Desti- nation
D52-54 D52-54 D52-54 D61-65 D61-65	**	*	B30-1533-05 B30-1533-05 B30-1533-05 B30-1533-05 B30-1729-05	LED (PG) LED (PG) LED (PG) LED (PG) LED (BLUE)			EE1E2 E3E7E8 E9 E3 EE1E2	D71-77 D71-77 D96 ED1 IC1		* * *	UDZ\$5.6B 02DZ5.6F-Y DA204U 3-BT-224N LC75756W	ZENER DIO ZENER DIO DIODE FLUORESCE MOS-IC		EE7
D61-65 D61-65 D70		*	B30-1729-05 B30-1729-05 B30-1567-05	LED (BLUE) LED (BLUE) LED (RED)	2.2UF	K	E6E7E8 E9	IC3 Q1,2 Q1,2 Q1,2 Q1,2 Q1,2		*	PNA4S22M KTC4075EP(Y,GR) KTC4075EP(Y,GR) 2SC4617 2SC4617	ANALOGUE TRANSISTO TRANSISTO TRANSISTO TRANSISTO	DR DR DR	EE7 EE1E2 E7E8E9 EE1E2 E7E8E9
C10 C11,12 C15 C21 C61-65			CK73GB03223K CK73GB1H103K CC73GCH1H470J CK73FB1A225K CK73GB1H103K	CHIP C CHIP C CHIP C	0.010UF 47PF 2.2UF 0.010UF	K J K K	EE7 EE1E2	Q1,2 Q1,2 Q1,2 Q21 Q21		* *	2SC5383(E,F) 2SC5383(E,F) DTA114EE KRA302E-P	TRANSISTO TRANSISTO DIGITAL TR	DR DR ANSISTOR	EE1E2 E7E8E9
C61-65 C61-65			CK73GB1H103K CK73GB1H103K		0.010UF 0.010UF	K K	E6E7E8 E9	Q21 Q21			RT1P141U	TRANSISTO)R	
										CI	D PLAYER UNI			
J1 CP11 R1,2 R1,2 R11		*	E59-0840-05 RK74HB1J103J RK73GB2A222J RK73GB2A222J RK73GB2A471J	CHIP R 2	10K J 2.2K J 2.2K J	1/16W 1/10W 1/10W 1/10W	EE1E2 E7E8E9	C1,2 C3,4 C5 C6 C7-9			CK73GB1H222K CK73GB0J105K CK73GB1C104K CK73GB1H103K CK73GB0J105K	CHIP C CHIP C CHIP C CHIP C	2200PF K 1.0UF K 0.10UF K 0.010UF K 1.0UF K	
R13 R14 R15-17 R18 R19 R21			RK73GB2A471J RK73GB2A221J RK73GB2A471J RK73GB2A102J RK73GB2A471J RK73GB2A104J	CHIP R 2 CHIP R 4 CHIP R 1 CHIP R 4	220 J 170 J 1.0K J 170 J	1/10W 1/10W 1/10W 1/10W 1/10W	EE7	C10-15 C16 C17 C18 C19			CK73GB1C104K CK73FB0J475K CK73FB0J106M CK73GB1C104K CK73FB0J475K	CHIP C CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF K 4.7UF K 10UF M 0.10UF K 4.7UF K	
R22 R23 R23 R31-34 R61			RK73GB2A101J RK73GB2A104J RK73GB2A104J RK73FB2B471J RK73EB2E621J	CHIP R 1 CHIP R 1 CHIP R 4	100 J 100K J 100K J 170 J 520 J	1/10W 1/10W 1/10W 1/8W 1/4W	EE7 E1E2E3 E6E8E9	C21 C22,23 C24-27 C28			CK73GB1H102K CK73GB0J105K CK73GB1C104K CK73FB0J106M CK73GB1C104K	CHIP C CHIP C CHIP C CHIP C	1000PF K 1.0UF K 0.10UF K 10UF M	
R61,62 R61,62 R61,62 R62,63 R63			RK73EB2E301J RK73EB2E301J RK73EB2E301J RK73EB2E561J RK73EB2E471J	CHIP R 3 CHIP R 3 CHIP R 5	300 J 300 J 300 J 560 J	1/4W 1/4W 1/4W 1/4W 1/4W	EE1E2 E6E7E8 E9 E3 EE1E2	C30 C31 C32,33 C34			CK73GB1H152K CC73GCH1H470J CK73GB1C104K CC73GCH1H560J CK73GB1C104K	CHIP C CHIP C CHIP C CHIP C	1500PF K 47PF J 0.10UF K 56PF J	
R63 R63 R70 R72			RK73EB2E471J RK73EB2E471J RK73GB2A221J RK73GB2A472J	CHIP R 4 CHIP R 4 CHIP R 2		1/4W 1/4W 1/10W 1/10W	E6E7E8 E9	C37 C38 C39 C41			CK73GB1H102K CK73GB1H682K CK73GB1C104K CK73GB1A334K	CHIP C CHIP C CHIP C CHIP C	1000PF K 6800PF K 0.10UF K 0.33UF K	
R74 R75 R78 R80 R82		* *	RK73GB2A4R7J RK73GB2A203J RK73GB2A102J RK73SB3A330J RK73SB3A330J	CHIP R 2 CHIP R 1 CHIP R 3	1.7 J 20K J 1.0K J 33 J	1/10W 1/10W 1/10W 1W 1W		C42-45 C46 C47 C48 C49			CK73GB1C104K CK73GB1H682K CK73GB1C104K CC73GCH1H040C CK73GB1H332K	CHIP C CHIP C CHIP C CHIP C	0.10UF K 6800PF K 0.10UF K 4.0PF C 3300PF K	
W1 W2 W11 W14			R92-1252-05 R92-1252-05 R92-1252-05 R92-1252-05	CHIP R (OHM JOHM JOHM J	1/16W 1/16W 1/16W 1/16W	E3 E6	C50 C51 C52 C53 C54,55			CK73GB1C104K CC73GCH1H330J CK73FB1A225K CK73GB0J105K CK73GB1H103K	CHIP C CHIP C CHIP C CHIP C	0.10UF K 33PF J 2.2UF K 1.0UF K 0.010UF K	
S12			S70-0106-05	TACT SWITCH				C56,57 C58			CK73GB1H331K CK73GB1H472K	CHIP C CHIP C	330PF K 4700PF K	
S11		*	T99-0457-05	ROTARY ENC	ODER			C59,60 C61,62			CK73GB1H152K CK73GB1H102K	CHIP C CHIP C	1500PF K 1000PF K	

E: KDC-W4531 E1: KDC-W4031 E2: KDC-W409 E3: KDC-W431GY E6: KDC-WF431A E7: KDC-W4531Y E8: KDC-W4031Y E9: KDC-W409Y (E: Europe K: North America M: Other Areas W: Without Europe)

CD PLAYER UNIT (X32-5500-00)

Ref. No.	A d d	N e w	Parts No.		escription		Desti- nation	Ref. No.	A d d	N e w	Parts No.		Descripti	on		Desti- nation
C63 C64 C66 C67	u	W	CK73GB1H152K CK73GB1C104K CC73GCH1H120J CC73GCH1H180J	CHIP C CHIP C CHIP C CHIP C	1500PF 0.10UF 12PF 18PF	K K J J		R40 R42 R43 R44,45	u	W	RK73GB2A394J RK73GB2A101J RK73GB2A393J RK73GB2A302J	CHIP R CHIP R CHIP R CHIP R	390K 100 39K 3.0K	J	1/10W	
C68			CK73GB1H103K	CHIP C	0.010UF	K		R46			RK73GB2A105J	CHIP R	1.0M	J	1/10W	
C69 C70			CK73FB1A225K CK73FB1A105K	CHIP C	2.2UF 1.0UF	K K		R47 R48,49			RK73GB2A104J RK73GB2A331J	CHIP R CHIP R	100K 330		1/10W	
C71 C72			CK73FB0J106M CK73GB1H102K	CHIP C CHIP C	10UF 1000PF	M K		R50 R51 R52			RK73GB2A101J RK73GB2A392J RK73GB2A163J	CHIP R CHIP R CHIP R	100 3.9K 16K	J	1/10W 1/10W 1/10W	
CN1 CN2			E41-2083-05 E41-2068-05	FLAT CABLI				R53			RK73GB2A123J	CHIP R	12K		1/10W	
CN2			E41-2085-15	FLAT CABL		TOR		R54 R55			RK73GB2A333J RK73GB2A103J	CHIP R CHIP R	33K 10K		1/10W	
L1,2 X1 X2			L92-0386-05 L77-2808-05 L78-0896-05	CHIP FERR CRYSTAL RES RESONATO	ONATOR (16.8	,		R56 R57,58			RK73GB2A123J RK73GB2A133J	CHIP R CHIP R	12K 13K		1/10W 1/10W	
CP1 CP2.3			RK74GA1J104J RK74GA1J101J	CHIP-COM		1/16W 1/16W		R59 R60 R61			RK73GB2A472J RK73GB2A123J RK73GB2A183J	CHIP R CHIP R CHIP R	4.7K 12K 18K	J	1/10W 1/10W 1/10W	
CP4 CP5 CP6			RK74GA1J103J RK74GA1J102J RK74GA1J104J	CHIP-COM CHIP-COM CHIP-COM	10K J 1.0K J	1/16W 1/16W 1/16W		R62 R63			RK73GB2A432J RK73GB2A133J	CHIP R CHIP R	4.3K 13K		1/10W	
CP7 CP8			RK74GB1J102J RK74GA1J102J	CHIP-COM CHIP-COM		1/16W 1/16W		R64 R65 R66			RK73GB2A151J RK73GB2A104J RK73GB2A472J	CHIP R CHIP R CHIP R	150 100K 4.7K	J J		
CP9 CP10 CP11			RK74GB1J101J RK74GB1J103J RK74GB1J472J	CHIP-COM CHIP-COM	10K J	1/16W 1/16W 1/16W		R67 R68,69			RK73GB2A222J RK73GB2A104J	CHIP R CHIP R	2.2K 100K	J	1/10W 1/10W	
CP12			RK74GA1J104J	CHIP-COM	100K J	1/16W		R70			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
CP13,14 CP15 CP16			RK74GB1J104J RK74GA1J104J RK74GB1J222J			1/16W 1/16W		S1,2 S3			S68-0863-05 S68-0862-05	PUSH SW PUSH SW				
R1			RK73GB2A100J	CHIP R		1/10W		D2 D3			DA204UF DAN202UF	DIODE	NITOOLL	- D I	0	
R2 R3,4 R5 R6			R92-3494-05 RK73FB2B331J RK73GB2A101J RN73GH1J223D	CHIP R CHIP R CHIP R CHIP R	100 J	1/8W		IC1 IC2 IC3			91CW12AFG-5AR1 UPD63712GC TC94A20F-010	MICROCO MOS-IC MOS-IC)N I ROLL	EKI	C	
R7			RK73GB2A104J	CHIP R	100K J			IC4 IC5			BA5824FP-F NJM2880U133	ANALOGU	JE IC			
R8 R9 R10 R11,12			RN73GH1J393D RK73GB2A104J RK73GB2A101J RK73GB2A104J	CHIP R CHIP R CHIP R CHIP R	100K J 100 J	1/16W 1/10W 1/10W 1/10W		IC5 IC6 IC6			NJM2880U33 S-1112B33MCG XC6219B332MR	ANALOGU ANALOGU ANALOGU	JE IC			
R13			RK73GB2A102J	CHIP R	1.0K J	1/10W		IC7 IC7			S-1112B25MCG XC6219B252MR	ANALOGI ANALOGI				
R14-17 R18 R21-23			RK73GB2A104J RK73GB2A101J RK73GB2A103J	CHIP R CHIP R CHIP R	100 J 10K J	1/10W 1/10W 1/10W		IC8 IC9 Q1			TC7SH08FU TAR5S33-F 2SK3018F	MOS-IC ANALOGU FET	JE IC			
R24,25 R27			RK73GB2A4R7J RK73GB2A104J	CHIP R CHIP R		1/10W 1/10W		Q3 Q4			UMD9N 2SK3018F	TRANSIS'	TOR			
R28 R29			RK73GB2A103J RK73GB2A102J	CHIP R	1.0K J	1/10W 1/10W		Q5 Q6			UMD9N UMD12N	TRANSIS'	TOR	.0.0		
R31-33 R34 R35			RK73GB2A104J RK73GB2A472J RK73GB2A104J	CHIP R CHIP R CHIP R	4.7K J	1/10W 1/10W 1/10W		Q7 Q8			2SB0970	DIGITAL T	TOR			
R36			RK73FB2B4R7J	CHIP R		1/8W		Q9,10		E	DTC114YUAF LECTRIC UNI	DIGITAL T Г (ХЗ4- 3				
R37 R38 R39			RK73GB2A103J RK73GB2A221J RK73GB2A152J	CHIP R CHIP R CHIP R	220 J	1/10W 1/10W 1/10W		D401			B30-1567-05	LED (RED				

ELECTRIC UNIT (X34-3402-7x)

Ref. No.	A d d	N e w	Parts No.	Do	escription		Desti- nation	Ref. No.	A d d	N e w	Parts No.	De	escription		Desti- nation
C1,2 C3-6 C3-6 C51 C51		*	CD04AT1HR47M C90-5684-05 C90-6735-05 C90-5683-05 C90-6746-05	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	0.47UF 0.22UF 0.22UF 3300UF 3300UF	50WV 50WV 50WV 16WV 16WV	E3E6 EE1E2	C503 C504 C505 C506 C507,508			CK73GB1C104K CK73GB1H103K CD04AT1C4R7M CK73GB1A684K CD04AT1A220M	CHIP C CHIP C ELECTRO CHIP C ELECTRO	0.10UF 0.010UF 4.7UF 0.68UF 22UF	K K 16WV K 10WV	
C51 C52,53 C54,55 C69 C71		*	C90-6746-05 CK73GB1H102K CK73GB1H103K CK73GB1A474K CD04AS1C470M	ELECTRO CHIP C CHIP C CHIP C ELECTRO	3300UF 1000PF 0.010UF 0.47UF 47UF	16WV K K K 16WV	E7E8E9	C509 C510 C512 C513,514 C515			CC73GCH1H680J CC73GCH1H101J CD04AT1C100M CK73GB1H103K CD04AT1H010M	CHIP C CHIP C ELECTRO CHIP C ELECTRO	68PF 100PF 10UF 0.010UF 1UF	J J 16WV K 50WV	
C72 C74-77 C78 C79 C80		*	CK73GB1H104K CK73GB1C104K CD04AT1E101M CD04AS1A220M CD04AT1E101M	CHIP C CHIP C ELECTRO ELECTRO ELECTRO	0.10UF 0.10UF 100UF 22UF 100UF	K K 25WV 10WV 25WV		C516 C517,518 C519,520 C521,522 C524			CC73GCH1H100D CK73FB1C105K CK73FB1C474K CC73GCH1H102J CC73GCH1H180J	CHIP C CHIP C CHIP C CHIP C CHIP C	10PF 1.0UF 0.47UF 1000PF 18PF	D K K J J	
C81 C82 C82 C96 C97			CK73GB1H103K CK73GB1E223K CK73GB1H223K CD04AS1HR47M CD04AS1C470M	CHIP C CHIP C CHIP C ELECTRO ELECTRO	0.010UF 0.022UF 0.022UF 0.47UF 47UF	K K K 50WV 16WV		C525 C527 C531 C541 C542			CC73GCH1H150J CC73GCH1H102J CK73FB1C105K CC73GCH1H271J CC73GCH1H050C	CHIP C CHIP C CHIP C CHIP C CHIP C	15PF 1000PF 1.0UF 270PF 5.0PF	J K J C	
C112,113 C112,113 C112,113 C116 C116			CC73GCH1H100D CC73GCH1H100D CC73GCH1H100D CC73GCH1H331J CC73GCH1H331J	CHIP C CHIP C CHIP C CHIP C CHIP C	10PF 10PF 10PF 330PF 330PF	D D J J	EE1E2 E6E7E8 E9 EE1E2 E6E7E8	C543 C544 C545 C547 C548			CC73GCH1H080D CC73GCH1H150J CK73GB1H682K CD04AT1A220M CK73GB1E223K	CHIP C CHIP C CHIP C ELECTRO CHIP C	8.0PF 15PF 6800PF 22UF 0.022UF	D J K 10WV K	
C116 C117 C117 C117 C118			CC73GCH1H331J CD04AS1H2R2M CD04AS1H2R2M CD04AS1H2R2M CK73GB1H103K	CHIP C ELECTRO ELECTRO ELECTRO CHIP C	330PF 2.2UF 2.2UF 2.2UF 0.010UF	J 50WV 50WV 50WV K	E9 EE1E2 E6E7E8 E9 EE1E2	C548 C549 C550 C550 C551			CK73GB1H223K CK73GB1H222K CK73GB1E333K CK73GB1H333K CK73GB1H103K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.022UF 2200PF 0.033UF 0.033UF 0.010UF	K K K K	
C118 C118 C119 C119 C119			CK73GB1H103K CK73GB1H103K CD04AS1C100M CD04AS1C100M CD04AS1C100M	CHIP C CHIP C ELECTRO ELECTRO ELECTRO	0.010UF 0.010UF 10UF 10UF 10UF	K K 16WV 16WV	E6E7E8 E9 EE1E2 E6E7E8 E9	C553 C554 C556 C559 C561			CK73GB1C104K CK73GB1A334K CK73GB1H103K CK73GB1H332K CK73FB1H104K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF 0.33UF 0.010UF 3300PF 0.10UF	K K K K	
C153 C201 C255 C255 C255			CK73GB0J105K CK73GB1H103K CD04AS1A330M CD04AS1A330M CD04AS1C100M	CHIP C CHIP C ELECTRO ELECTRO ELECTRO	1.0UF 0.010UF 33UF 33UF 10UF	K K 10WV 10WV 16WV	EE1E2 E7E8E9 E3E6	C562 C563 C564 C565 C568			CD04AT1A100M CD04AT1HR47M CK73GB1A474K CK73FB1C105K CC73GCH1H271J	ELECTRO ELECTRO CHIP C CHIP C CHIP C	10UF 0.47UF 0.47UF 1.0UF 270PF	10WV 50WV K K J	
C256 C257 C258 C301,302 C303			CD04AS1H010M CD04AT1H010M CD04AS1H010M CK73FB1C474K CD04AT1A470M	ELECTRO ELECTRO ELECTRO CHIP C ELECTRO	1UF 1UF 1UF 0.47UF 47UF	50WV 50WV 50WV K 10WV	EE7 EE7	C579 C581 C582 C582 C583			CK73GB1H103K CC73GCH1H101J CK73GB1E223K CK73GB1H223K CK73GB1C683K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.010UF 100PF 0.022UF 0.022UF 0.068UF		
C331,332 C333,334 C407 C408 C409			CD04AT1C100M CC73GCH1H681J CC73GCH1H220J CC73GCH1H180J CD04AS0J101M	ELECTRO CHIP C CHIP C CHIP C ELECTRO	10UF 680PF 22PF 18PF 100UF	16WV J J J 6.3WV		C583 C584 C585 C586 C587			CK73GB1H683K CD04AT1H010M CK73GB1H103K CK73GB0J105K CK73GB1C104K	CHIP C ELECTRO CHIP C CHIP C CHIP C	0.068UF 1UF 0.010UF 1.0UF 0.10UF	K 50WV K K K	
C410 C411 C420 C422 C502			CK73GB1H103K CK73GB1A224K CC73GCH1H102J CC73GCH1H101J CK73GB1H152K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.010UF 0.22UF 1000PF 100PF 1500PF	K K J J K		C588 C589 C590 C600 C601			CK73GB1A474K CK73GB1C104K CK73GB1H392K CD04AT1A101M CK73GB1E223K	CHIP C CHIP C CHIP C ELECTRO CHIP C	0.47UF 0.10UF 3900PF 100UF 0.022UF	K K K 10WV K	

E: KDC-W4531 E1: KDC-W4031 E2: KDC-W409 E3: KDC-W431GY E6: KDC-WF431A E7: KDC-W4531Y E8: KDC-W4031Y E9: KDC-W409Y (E: Europe K: North America M: Other Areas W: Without Europe)

ELECTRIC UNIT (X34-3402-7x)

			N	II (X34-3402-7		Desti-		Α	N			Desti-
	Ref. No.	A d d	e W	Parts No.	Description	nation	Ref. No.	d d	e W	Parts No.	Description	nation
	C601 C602 C604 C605,606 C610			CK73GB1H223K CC73GCH1H151J CC73GCH1H470J CC73GCH1H010C CC73GCH1H010C	CHIP C 0.022UF K CHIP C 150PF J CHIP C 47PF J CHIP C 1.0PF C CHIP C 1.0PF C		W401-410 W412-427 W801 W830			E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00	JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE	
	C620 C623,624 C625,626			CK73GB1H103K CK73GB1H103K CC73GCH1H101J	CHIP C 0.010UF K CHIP C 0.010UF K CHIP C 100PF J		CF51-53 CF54 L3 L4 L51			L72-0805-05 L72-0804-05 L33-1978-05 L33-2260-05 L33-1988-05	CERAMIC FILTER (10.7MHZ) CERAMIC FILTER (450KHZ) CHOKE COIL (22UH) CHOKE COIL (52UH) CHOKE COIL ASSY (140UH)	
Δ	CN2 CN3 CN3 CN3 J1		*	E41-2244-05 E41-0941-05 E41-0941-05 E41-0941-05 E58-0991-05	FLAT CABLE CONNECTOR PIN ASSY PIN ASSY PIN ASSY RECTANGULAR RECEPTACLE	EE1E2 E6E7E8 E9	L61 L101 L101 L101 L501			L40-4795-91 L40-4795-91 L40-4795-91 L40-4795-91 L40-6891-58	SMALL FIXED INDUCTOR (4.7UH, J) SMALL FIXED INDUCTOR (4.7UH, J) SMALL FIXED INDUCTOR (4.7UH, J) SMALL FIXED INDUCTOR (4.7UH, J) SMALL FIXED INDUCTOR (6.8UH)	E6E7E8
	J2 J4 J5 J6 P1		*	E56-0855-05 E04-0326-05 E58-0992-05 E63-0898-05 E23-0745-05	CYLINDRICAL RECEPTACLE RF COAXIAL CABLE RECEPTACLE RECTANGULAR RECEPTACLE PIN JACK TERMINAL	EE7	L502 L503 L504 L505 L506		* *	L40-3301-58 L40-1021-56 L40-1011-58 L40-3381-58 L31-0977-15	SMALL FIXED INDUCTOR (33UH) SMALL FIXED INDUCTOR (1UH) SMALL FIXED INDUCTOR (100UH) SMALL FIXED INDUCTOR (0.33UH) FM-RF COIL	
	W251 W300-302 W300-311 W300-311 W300-324			E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00	JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE	E3E6 E3 E1E2E6 E8E9 EE7	L507 L508 L509 L518 L519		*	L32-0941-15 L30-0776-15 L30-0777-15 L31-0976-15 L40-4763-72	FM OSCILLATING COIL FM IFT AM IFT FM-RF COIL SMALL FIXED INDUCTOR (4.7NH)	
	W304-311 W313-324 W313-324 W326-329 W326-337			E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00	JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE	E3 E1E2E3 E6E8E9 E3 E1E2E6	L520 L521 L600 L601,602 X1			L40-3381-58 L40-1073-72 L92-0607-05 L92-0397-05 L78-0879-05	SMALL FIXED INDUCTOR (0.33UH) SMALL FIXED INDUCTOR (10NH) CHIP FERRITE CHIP FERRITE RESONATOR (10.000MHZ)	
	W326-337 W326-345 W331-337 W339-341 W339-341			E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00	JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE	E8E9 EE7 E3 E1E2E3 E6E8E9	X2 X3 X3 X3 X501			L77-2793-05 L77-2002-05 L77-2002-05 L77-2002-05 L77-2077-05	CRYSTAL RESONATOR (32.768KHZ) CRYSTAL RESONATOR (4.332MHZ) CRYSTAL RESONATOR (4.332MHZ) CRYSTAL RESONATOR (4.332MHZ) CRYSTAL RESONATOR (10.250MHZ)	EE1E2 E6E7E8 E9
	W345 W345 W345-347 W346,347 W347			E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00	JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE	E1E2E8 E9 E6 E3 E1E2E8	F G H J	2D 2D 2D 3D	* * *	N80-3010-48 N83-3005-48 N83-3020-48 N86-2606-48	PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW	
	W347 W347-366 W349-353 W349-353 W355-357			E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00	JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE	E9 EE7 E1E2E3 E6E8E9 E1E2E3	R1,2 R21 R51 R52 R53			RK73GB2A101J RD14BB2C152J RK73FB2B683J RK73GB2A393J RK73GB2A104J	CHIP R 100 J 1/10W RD 1.5K J 1/6W CHIP R 68K J 1/8W CHIP R 39K J 1/10W CHIP R 100K J 1/10W	
	W355-357 W361-366 W361-366 W368-372 W368-399			E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00	JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE	E6E8E9 E1E2E3 E6E8E9 E3 E6	R54 R55,56 R57 R58 R59			RK73FB2B203J RK73GB2A103J RK73GB2A223J RD14DB2H332J RD14BB2C333J	CHIP R 20K J 1/8W CHIP R 10K J 1/10W CHIP R 22K J 1/10W SMALL-RD 3.3K J 1/2W RD 33K J 1/6W	
	W369-376 W369-376 W374-393 W378-399 W378-399			E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00 E31-0001-00	JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE JUMPER WIRE	EE1E2 E7E8E9 E3 EE1E2 E7E8E9	R60 R61 R72,73 R75-78 R81			RK73GB2A103J RK73GB2A223J RD14BB2C472J RK73GB2A103J RD14BB2C103J	CHIP R 10K J 1/10W CHIP R 22K J 1/10W RD 4.7K J 1/6W CHIP R 10K J 1/10W RD 10K J 1/6W	
	W395-399			E31-0001-00	JUMPER WIRE	E3	R82			RK73GB2A223J	CHIP R 22K J 1/10W	

ELECTRIC UNIT (X34-3402-7x)

Ref. No.	d d	N e w	Parts No.		Descripti	on		Desti- nation	Ref. No.	A d d	N e w	Parts No.		Description	on		Desti natio
R83 R85 R86 R87,88 R90			RK73GB2A473J RK73GB2A1R0J RK73EB2E1R0J RK73GB2A1R0J RK73GB2A1R0J	CHIP R CHIP R CHIP R CHIP R CHIP R	47K 1.0 1.0 1.0 1.0	J J J	1/10W 1/10W 1/4W 1/10W 1/10W		R272 R273 R301,302 R303 R304,305			RK73GB2A103J RK73GB2A474J RK73EB2E100J RK73EB2E101J RK73EB2E472J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 470K 10 100 4.7K	J J J	1/10W 1/10W 1/4W 1/4W 1/4W	EE7 EE7 EE7
R96 R97 R98 R99 R100		*	RK73GH2A273D RK73GH2A332D RK73EB2E102J RK73GB2A104J RK73GB2A272J	CHIP R CHIP R CHIP R CHIP R CHIP R	27K 3.3K 1.0K 100K 2.7K	D J J	1/10W 1/10W 1/4W 1/10W 1/10W		R306 R307-309 R310,311 R312 R313			RK73EB2E4R7J RK73EB2E472J RK73EB2E101J RD14BB2C104J RK73GB2A104J	CHIP R CHIP R CHIP R RD CHIP R	4.7 4.7K 100 100K 100K	J J J	1/4W 1/4W 1/4W 1/6W 1/10W	EE7 EE7 EE7 EE7 EE7
R112-114 R112-114 R112-114 R130,131 R133			RK73GB2A222J RK73GB2A222J RK73GB2A222J RK73EB2E4R7J RK73EB2E4R7J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2K 2.2K 2.2K 4.7 4.7	J	1/10W 1/10W 1/10W 1/4W 1/4W	EE1E2 E6E7E8 E9	R331,332 R335,336 R338,339 R351,352 R353			RK73GB2A271J RK73GB2A303J RD14BB2C101J RK73GB2A222J RK73GB2A102J	CHIP R CHIP R RD CHIP R CHIP R	270 30K 100 2.2K 1.0K	J J J	1/10W 1/10W 1/6W 1/10W 1/10W	
R135-140 R141 R152 R153 R156,157			RK73EB2E4R7J RK73EB2E2R2J RK73EB2E100J RK73EB2E471J RK73EB2E102J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7 2.2 10 470 1.0K	J J J	1/4W 1/4W 1/4W 1/4W 1/4W		R355,356 R358 R359 R360 R363			RK73GB2A102J RK73GB2A222J RK73GB2A101J RK73GB2A222J RD14BB2C472J	CHIP R CHIP R CHIP R CHIP R RD	1.0K 2.2K 100 2.2K 4.7K	J J J	1/10W 1/10W 1/10W 1/10W 1/6W	
R158 R159 R160,161 R162 R162			RK73EB2E101J RK73EB2E102J RK73EB2E471J RK73EB2E102J RK73EB2E102J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 1.0K 470 1.0K 1.0K	J J J	1/4W 1/4W 1/4W 1/4W 1/4W	EE1E2 E6E7E8	R365 R366 R367 R368,369 R370,371			RK73GB2A472J RK73EB2E472J RK73GB2A104J RK73GB2A471J RK73GB2A472J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 4.7K 100K 470 4.7K	J J J	1/10W 1/4W 1/10W 1/10W 1/10W	
R162 R163 R164 R172 R172			RK73EB2E102J RK73EB2E471J RK73EB2E102J RD14BB2C102J RD14BB2C102J	CHIP R CHIP R CHIP R RD RD	1.0K 470 1.0K 1.0K 1.0K	J	1/4W 1/4W 1/4W 1/6W 1/6W	E9 EE1E2 E6E7E8	R411 R412 R412,413 R412,413 R414			RK73GB2A223J RK73GB2A223J RK73GB2A223J RK73GB2A223J RK73GB2A223J	CHIP R CHIP R CHIP R CHIP R CHIP R	22K 22K 22K 22K 22K 22K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W	E3 E6 EE1E E7E8 E3E(
R172 R178 R180,181 R182 R190			RD14BB2C102J RK73EB2E471J RK73GB2A471J RK73GB2A222J RK73GB2A104J	RD CHIP R CHIP R CHIP R CHIP R	1.0K 470 470 2.2K 100K	J J J	1/6W 1/4W 1/10W 1/10W 1/10W	E9	R415 R416-418 R416-418 R417,418 R431			RK73GB2A223J RK73GB2A223J RK73GB2A223J RK73GB2A223J RK73GB2A223J	CHIP R CHIP R CHIP R CHIP R CHIP R	22K 22K 22K 22K 22K 22K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W	EE7 E1E2 E6E8 EE7 EE1E
R191 R193,194 R199 R200 R251			RK73GB2A225J RK73GB2A474J RK73GB2A241J RK73GB2A102J RK73GB2A154J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2M 470K 240 1.0K 150K	J J	1/10W 1/10W 1/10W 1/10W 1/10W	E3E6	R431 R431 R432 R433 R435,436			RK73GB2A223J RK73GB2A223J RK73GB2A472J RK73GB2A222J RK73GB2A103J	CHIP R CHIP R CHIP R CHIP R CHIP R	22K 22K 4.7K 2.2K 10K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W	E6E8 E9
R251 R251 R252 R253 R254			RK73GB2A333J RK73GB2A333J RK73GB2A473J RK73GB2A432J RK73GB2A100J	CHIP R CHIP R CHIP R CHIP R CHIP R	33K 33K 47K 4.3K 10	J J	1/10W 1/10W 1/10W 1/10W 1/10W	EE1E2 E7E8E9	R437,438 R439 R440,441 R453 R454			RK73GB2A102J RK73GB2A222J RK73GB2A473J RK73GB2A473J RK73GB2A472J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 2.2K 47K 47K 4.7K]]]	1/10W 1/10W 1/10W 1/10W 1/10W	
R255 R255 R255 R256 R256			RK73GB2A221J RK73GB2A221J RK73GB2A331J RK73GB2A154J RK73GB2A223J	CHIP R CHIP R CHIP R CHIP R CHIP R	220 220 330 150K 22K	J J	1/10W 1/10W 1/10W 1/10W 1/10W	EE1E2 E7E8E9 E3E6 E3E6 EE1E2	R456 R457 R470 R470 R470			RK73GB2A104J RK73GB2A103J RK73GB2A222J RK73GB2A222J RK73GB2A222J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 10K 2.2K 2.2K 2.2K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W	EE18 E6E7 E9
R256 R257 R257 R257 R257			RK73GB2A223J RK73GB2A123J RK73GB2A303J RK73GB2A303J RK73GB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	22K 12K 30K 30K 100	J J	1/10W 1/10W 1/10W 1/10W 1/10W	E7E8E9 E3E6 EE1E2 E7E8E9	R471 R480 R501 R502,503 R504			RK73GB2A103J RK73GB2A104J RK73GB2A682J RK73GB2A222J RK73GB2A4R7J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 100K 6.8K 2.2K 4.7]]]	1/10W 1/10W 1/10W 1/10W 1/10W	E3 EE7

ELECTRIC UNIT (X34-3402-7x)

Ref. No.	A d d	N e w	Parts No.		Description		Desti- nation	Ref. No.	δdd	N e w	Parts No.	Descriptio	1	Desti- nation
R505 R506 R507 R520 R521	-		RK73GB2A102J RK73GB2A105J RK73GB2A102J RK73GB2A221J RK73GB2A152J	CHIP R CHIP R CHIP R CHIP R CHIP R	220 J	1/10W 1/10W 1/10W 1/10W 1/10W		W87 W88,89 W90,91 W92 W93	-		R92-2053-05 R92-1252-05 R92-2053-05 R92-1252-05 R92-2053-05	CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM	J 1/8W J 1/16W J 1/8W J 1/16W J 1/8W	E3
R522 R543 R544 R545 R546			RK73GB2A223J RK73GB2A562J RD14BB2C222J RK73GB2A333J RK73GB2A432J	CHIP R CHIP R RD CHIP R CHIP R	22K J 5.6K J 2.2K J 33K J 4.3K J	1/10W 1/10W 1/6W 1/10W 1/10W		W93,94 W93,94 W93,94 W96-98 W99			R92-2053-05 R92-2053-05 R92-2053-05 R92-1252-05 R92-2053-05	CHIP R 0 OHM	J 1/8W J 1/8W J 1/16W	EE1E2 E6E7E8 E9
R561 R562 R565 R566,567 R589			RK73GB2A472J RK73GB2A106J RK73GB2A394J RK73GB2A102J RK73GB2A473J	CHIP R CHIP R CHIP R CHIP R CHIP R	390K J	1/10W 1/10W 1/10W 1/10W 1/10W		W102 W252 W252 W506 W604,605			R92-2053-05 R92-1252-05 R92-1252-05 R92-2053-05 R92-1252-05	CHIP R 0 OHM CHIP R 0 OHM	J 1/16W	EE1E2 E7E8E9
R590 R591 R592 R594 R595-597			RK73GB2A103J RK73GB2A513J RK73GB2A223J RK73EB2E100J RD14BB2C100J	CHIP R CHIP R CHIP R CHIP R RD	10 J	1/10W 1/10W		W611 W802 W804-807 W808 W810			R92-1252-05 R92-1252-05 R92-1252-05 R92-2053-05 R92-1252-05	CHIP R 0 OHM	J 1/16W J 1/16W	
R599 R600 R601 R602 R603			RK73GB2A220J RD14BB2C2R2J RD14BB2C1R0J RK73GB2A122J RK73GB2A560J	CHIP R RD RD CHIP R CHIP R	22 J 2.2 J 1.0 J 1.2K J 56 J	1/10W 1/6W 1/6W 1/10W 1/10W		W812 W814 W820 W823 W826			R92-2053-05 R92-2053-05 R92-2053-05 R92-1252-05 R92-2053-05	CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM	J 1/8W J 1/8W J 1/16W	
R604,605 W51 W52 W53 W57			RK73GB2A100J R92-1252-05 R92-2053-05 R92-1252-05 R92-2053-05	CHIP R CHIP R CHIP R CHIP R CHIP R	10 J 0 OHM J 0 OHM J 0 OHM J 0 OHM J		EE1E2	D3 D52 D53 D53 D54		*	IMSA-6801-E MAZ4068N-M UDZ\$6.8B 02DZ6.8F-Y MAZ4068N-M	SURGE ABSORBER ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
W57 W57 W58-60 W61-63 W64			R92-2053-05 R92-2053-05 R92-1252-05 R92-2053-05 R92-1252-05	CHIP R CHIP R CHIP R CHIP R CHIP R	0 OHM J 0 OHM J 0 OHM J 0 OHM J 0 OHM J	1/8W 1/8W 1/16W 1/8W 1/16W	E6E7E8 E9	D55 D57 D71 D72 D72			1\$\$355 \$2V60*A MAZ4082N-L D1F60-5063 1\$R154-400	DIODE DIODE ZENER DIODE DIODE DIODE		
W65,66 W67-71 W67-71 W67-71 W68			R92-2053-05 R92-1252-05 R92-1252-05 R92-1252-05 R92-1252-05	CHIP R CHIP R CHIP R CHIP R CHIP R	0 OHM J 0 OHM J 0 OHM J 0 OHM J 0 OHM J	1/16W 1/16W 1/16W	EE1E2 E6E7E8 E9 E3	D73 D73 D74,75 D74,75 D76		*	AM01ZNF 10EDA20 D1F60-5063 1SR154-400 DAN202U	DIODE DIODE DIODE DIODE DIODE		
W71 W72 W73 W75 W76			R92-1252-05 R92-2053-05 R92-1252-05 R92-2053-05 R92-1252-05	CHIP R CHIP R CHIP R CHIP R CHIP R	0 OHM J 0 OHM J 0 OHM J 0 OHM J 0 OHM J	1/8W 1/16W 1/8W	E3	D76 D76 D77 D77 D81		*	KDS121-P MC2848 AM01ZNF 10EDA20 UDZS4.7B	DIODE DIODE DIODE DIODE ZENER DIODE		
W78 W79,80 W81,82 W83 W85			R92-2053-05 R92-1252-05 R92-2053-05 R92-1252-05 R92-2053-05	CHIP R CHIP R CHIP R CHIP R CHIP R	0 OHM J 0 OHM J 0 OHM J 0 OHM J 0 OHM J	1/16W 1/8W 1/16W	EE1E2	D81 D162 D162 D162 D162 D203			02DZ4.7F-Y MAZ4062-L MAZ4062-L MAZ4062-L 1SS133	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		EE1E2 E6E7E8 E9
W85 W85 W86 W86 W86			R92-2053-05 R92-2053-05 R92-1252-05 R92-1252-05 R92-1252-05	CHIP R CHIP R CHIP R CHIP R CHIP R	0 OHM J 0 OHM J 0 OHM J 0 OHM J 0 OHM J	1/8W 1/16W 1/16W	E6E7E8 E9 EE1E2 E6E7E8 E9	D251-253 D251-253 D251-253 D251-253 D254			D1F60-5063 D1F60-5063 1SR154-400 1SR154-400 AM01ZNF	DIODE DIODE DIODE DIODE DIODE		EE1E2 E7E8E9 EE1E2 E7E8E9 EE1E2

ELECTRIC UNIT (X34-3402-7x)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	Add	N e w	Parts No.	Description	Desti- nation
D254 D254		*	AM01ZNF 10EDA20	DIODE DIODE	E7E8E9 EE1E2				CHANISM UN	IT (X92-4850-00)	
D254 D255-258		*	10EDA20 D1F60-5063	DIODE DIODE	E7E8E9 EE1E2	2	1B		A10-4827-32	CHASSIS	
D255-258			D1F60-5063 1SR154-400	DIODE	E7E8E9 EE1E2	5 8 10	1B 2A 2A		D10-4576-83 D10-4579-23 D10-4581-13	ARM ASSY LEVER ASSY ARM	
D255-258 D259 D259,260			1SR154-400 1SR154-400 1SS133 1SS133	DIODE DIODE DIODE DIODE	E7E8E9 E3E6 EE1E2	11 12	2A 2A 3A		D10-4582-13 D10-4583-03	ARM ARM	
D259,260			1SS133	DIODE	E7E8E9	13 14	3A 3B		D10-4584-03 D10-4585-03	ARM ARM	
D261 D301-304 D305,306 D402,403			1SS355 MAZ4062-L MAZ4068N-M DAN202U	DIODE ZENER DIODE ZENER DIODE DIODE	EE7 EE7	15 16 17	2A 3B 2B		D10-4586-13 D10-4587-52 D10-4588-13	SLIDER SLIDER SLIDER	
D402,403 D402,403		*	KDS121-P MC2848	DIODE		18 19 22	2B 2B 2A		D10-4595-04 D10-4596-24 D13-2151-04	ARM ARM GEAR	
D501 D502,503 D504		* * *	RN739F KP2311ETR-G KV1430STL-G	DIODE DIODE VARIABLE CAPACITANCE DIODE		23 24	2B 3B		D13-2151-04 D13-2152-04 D13-2153-04	GEAR GEAR	
D506 IC1		*	HVC383B-E 784225GC256A	VARIABLE CAPACITANCE DIODE MICROCONTROLLER IC		25 26 27	3B 3B 2B		D13-2154-04 D13-2155-04 D13-2156-14	GEAR WORM GEAR	
IC3 IC4 IC4		*	BD4912-V4 E-TDA7560A E-TDA7560A	ANALOGUE IC ANALOGUE IC ANALOGUE IC	EE1E2 E7E8E9	28 29	3B 2B		D13-2157-04 D13-2158-04	GEAR GEAR	
IC4 IC6 IC7		*	TB2904HQ TC7W02FU-F E-TDA7479AD	ANALOGUE IC MOS-IC ANALOGUE IC	E3E6 EE1E2	30 31 32 33	2B 3B 1B 2A		D13-2168-04 D13-2171-04 D13-2172-13 D14-0759-04	GEAR GEAR RACK (GEAR) ROLLER	
IC7 IC7 IC8		*	E-TDA7479AD E-TDA7479AD S-80836CNNB-G	ANALOGUE IC ANALOGUE IC MOS-IC	E6E7E8 E9	35 35 36	2B 1A		D21-2382-04 D23-0954-04	SHAFT	
IC10 IC11		*	E-TDA7516 BR24L04FV-W	ANALOGUE IC		37 38	1B 2B		D39-0246-05 G01-3072-04	DAMPER EXTENSION SPRING	
IC15 Q51-53 Q71		*	BA00CCWT 2SC4081 UMC2N	ANALOGUE IC TRANSISTOR TRANSISTOR		39 40 41 42	2A 2A 1B 2A		G01-3072-04 G01-3073-04 G01-3074-04 G01-3075-14 G01-3076-04	TORSION COIL SPRING EXTENSION SPRING EXTENSION SPRING EXTENSION SPRING EXTENSION SPRING	
Q72 Q73 Q74 Q151 Q151		*	2SB1565(E,F) 2SD1858 UMC2N DTA114YUA KRA307-P	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		43 44 45	1B 2B 2B		G01-3077-14 G02-1399-04 G02-1408-04	EXTENSION SPRING FLAT SPRING FLAT SPRING	
Q151 Q155 Q252 Q252 Q252 Q252		*	RT1P144M 2SC4081 KTA2014P(Y,GR) 2SA1576A 2SA1603A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		51 52 53 55 56	1A 3B 1B 1A 1B		J21-9676-32 J21-9677-22 J21-9678-13 J90-1001-11 J90-1023-03	MOUNTING HARDWARE MOUNTING HARDWARE MOUNTING HARDWARE GUIDE GUIDE	
Q330		·	DTA124EUA	DIGITAL TRANSISTOR		DFPC1	3A		J84-0141-05	FLEXIBLE PRINTED WIRING BOARD	
Q330 Q330 Q351,352 Q351,352			KRA303-P RT1P241M DTC143TUA KRC410-P	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		A B C E F	2B 1B 2B 2B 1A		N09-4460-05 N09-4472-15 N09-6004-05 N09-6007-05 N09-6051-05	TAPTITE SCREW (OVAL P TAPTIT) MACHINE SCREW (M1.7X8.0) MACHINE SCREW (M1.7X2.5 IB-L) MACHINE SCREW (PAN M2X2) TAPTITE SCREW (BIND P 2X5)	
Q351,352 Q501 TH1		*	RT1N430M HN3G01J(BL)-F PRF21BE471QB2	TRANSISTOR TRANSISTOR POSITIVE RESISTOR		G H J K	2A 1B 1B 3B		N19-2163-04 N39-2020-46 N09-6108-05 N09-6155-05	FLAT WASHER PAN HEAD MACHINE SCREW MACHINE SCREW (M2*3.5) SEMS (TAPTITE SCREW) (PT2X6)	

E: KDC-W4531 E1: KDC-W4031 E2: KDC-W409 E3: KDC-W431GY E6: KDC-WF431A E7: KDC-W4531Y E8: KDC-W4031Y E9: KDC-W409Y (E: Europe K: North America M: Other Areas W: Without Europe)

MECHANISM UNIT (X92-4850-00)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
DM1 DM2	3B 2B	<u> </u>	T42-1066-04 T42-1067-04	DC MOTOR (SPINDLE) DC MOTOR (LOADING)				-			
DPU1	2B		X93-2010-00	OPTICAL PICKUP ASSY							

CAPACITORS

1 = Type ... ceramic, electrolytic, etc.

2 = Shape ... round, square, etc.

3 = Temp. coefficient

4 = Voltage rating

5 = Value

6 = Tolerance



· Capacitor value

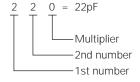
010 = 1pF

100 = 10pF

101 = 100pF

 $102 = 1000 pF = 0.001 \mu F$

 $103 = 0.01 \mu F$



· Temperature coefficient

1st Word	С	L	Р	R	S	Т	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	Н	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : $CC45TH = -470\pm60ppm/^{\circ}C$

• Tolerance (More than 10pF)

Code	e C	D	G	J	K	М	Χ	Z	Р	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10μF : -10~+50
							-20	-20	-0	Less than 4.7μF : -10~+75

(Less than 10pF)

Code	В	С	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

Voltage rating

_ ronage rannig	2										
2nd word	А	В	С	D	Е	F	G	Н	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	2150	4000	5000	6300	8000	_

CHIP CAPACITORS

(EX) $\frac{\text{C C}}{1} = \frac{73}{2} = \frac{\text{F}}{3} = \frac{\text{S L}}{4} = \frac{1 \text{ H}}{5} = \frac{000}{6} = \frac{\text{J}}{7} + \frac{1}{100} = \frac{1}{100} =$

(EX) $\frac{C \text{ K}}{1} \frac{73}{2} \frac{F}{3} \frac{F}{4} \frac{1 \text{ H}}{5} \frac{000}{6} \frac{Z}{7}$ (Chip) (B, F)

 $\frac{B}{4}$ $\frac{2 B}{5}$ $\frac{0 0 0}{6}$ $\frac{J}{7}$

Refer to the table above.

1 = Type

2 = Shape

3 = Dimension

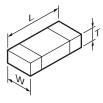
4 = Temp. coefficient

5 = Voltage rating

6 = Value

7 = Tolerance

Dimension



Chip capacitor

ornp capacitor								
Code	L	W	Т					
Empty	5.6±0.5	5.0±0.5	Less than 2.0					
А	4.5±0.5	3.2±0.4	Less than 2.0					
В	4.5±0.5	2.0±0.3	Less than 2.0					
С	4.5±0.5	1.25±0.2	Less than 1.25					
D	3.2±0.4	2.5±0.3	Less than 1.5					
E	3.2±0.2	1.6±0.2	Less than 1.25					
F	2.0±0.3	1.25±0.2	Less than 1.25					
G	1.6±0.2	0.8±0.2	Less than 1.0					
Н	1.0±0.05	0.5±0.05	0.5±0.05					

· Carbon resistor (Normal type)

(EX)
$$\frac{R}{1} \frac{D}{2} \frac{14}{3} \frac{B}{3} \frac{B}{4} \frac{2C}{5} \frac{000}{6} \frac{J}{7}$$

(Chip) (B, F)

1 = Type ... ceramic, electrolytic, etc. 5

5 = Voltage rating

2 = Shape ... round, square, etc.

6 = Value

3 = Dimension

RESISTORS

• Chip resistor (Carbon) (EX) $\frac{RD}{1}$ $\frac{73}{2}$ $\frac{E}{3}$ $\frac{B}{4}$

(Chip) (B, F)

7 = Tolerance

4 = Temp. coefficient

Chip resistor

Code	L	W	Т
E	3.2±0.2	1.6±0.2	1.0
F	2.0±0.3	1.25±0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1
Н	1.0±0.05	0.5±0.05	0.35±0.05

Rating wattage

· · · · · · · · · · · · · · · · · · ·	g manage				
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

SPECIFICATIONS

FM	Preout Level / Load
Frequency Range (Frequency Step)	KDC-W4031/W4031Y/W409/W409Y/W431GY/WF431A
87.5MHz~108.0MHz (50kHz)	
Usable Sensitivity (S/N : 26dB) $0.7\mu V/75\Omega$	KDC-W4531/W4531Y 2000mV/10kΩ (CD/CD-CH)
Quieting Sensitivity (S/N : 46dB) 1.6μV/75Ω	Preout Impedance≦600Ω
Frequency Response (±3.0dB)30Hz~15kHz	AMPLIEED
S/N	AMPLIFIER
Selectivity (DIN)≥80dB (±400kHz)	Maximum Power
Stereo Separation	KDC-W4031/W4031Y/W409/W409Y/W4531/W4531Y
NAVA / A NAV	KDC-W431GY/WF431A
MW (AM)	Power (DIN45324, +B=14.4V)
Frequency Range (Frequency Step)531kHz~1611kHz (9kHz)	KDC-W4031/W4031Y/W409/W409Y/W4531/W4531Y
Usable Sensitivity (S/N : 20dB)25µV	
O3αble Gensiavity (G/14 : 20αΒ)20μν	KDC-W431GY/WF431A 28W x 4
LW	
Frequency Range	TONE
Usable Sensitivity (S/N : 20dB)45µV	Bass100Hz±10dB
	Middle1kHz±10dB
CD	Treble10kHz±10dB
Laser Diode GaAlAs	O EN ED AL
Digital Filter (D/A) 8 Times Over Sampling	GENERAL
D/A Converter 1 Bit	Operating Voltage (11V~16V allowable)
Spindle Speed 1000rpm~400rpm (CLV. 2 times)	Current Consumption
Wow & Flutter Below Mesurable Limit	(Height)53mm
Frequency Response	(Depth) 155mm
Total Harmonic Distortion	Weight
Dynamic Range	3 (* 3)
Channel Separation	
MP3 Decode Compliant with MPEG-1/2 Audio Layer-3	
WMA Decode Compliant with WINDOWS MEDIA AUDIO	
·	

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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